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<b>(21) International Application Number:</b> PCT/US98/06954 <b>(22) International Filing Date:</b> 10 April 1998 (10.04.98)  <b>(30) Priority Data:</b> 08/835,913 10 April 1997 (10.04.97) US  <b>(71) Applicant:</b> GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US).  <b>(72) Inventors:</b> JACOBS, Kenneth; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M.; 56 Howard Street, Reading, MA 01867 (US). LAVALLIE, Edward, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). RACIE, Lisa, A.; 124 School Street, Acton, MA 01720 (US). MERBERG, David; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice; 93 Walcott Road, Chestnut Hill, MA 02167 (US). SPAULDING, Vikki; 11 Meadowbank Road, Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US).  <b>(74) Agent:</b> SPRUNGER, Suzanne, A.; Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140 (US).	<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>	

**(54) Title:** SECRETED EXPRESSED SEQUENCE TAGS (sESTs)**(57) Abstract**

Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.

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## SECRETED EXPRESSED SEQUENCE TAGS (sESTs)

FIELD OF THE INVENTION

5       The present invention provides novel polynucleotides which are expressed sequence tags (ESTs) for secreted proteins.

BACKGROUND OF THE INVENTION

10       Gargantuan efforts have been employed by various investigational projects to randomly sequence portions of naturally-occurring cDNAs. The rationale behind this approach to identification and sequencing genes is founded in two basic principles: (1) that transcribed cDNAs represent the product of the most important genes, namely those that are actually expressed *in vivo*, and (2) that efforts to sequence genes and other portions of the genome of target organisms which are not actually expressed wastes substantial effort on areas not likely  
15       to yield genetic information of therapeutic importance. Thus, the high-throughput sequencing efforts focus on only those portions of the genome which are expressed. The randomly produced cDNA sequences represent "expressed sequence tags" or "ESTs", which identify and can be used as probes for the longer, full-length cDNA or genomic sequence from which they were transcribed.

20       Although this "shortcut" approach to genomic sequencing presents savings of effort compared to sequencing of the complete genome, it still produced a vast array of ESTs which may not be directly useful as protein therapeutics. To date, the majority of protein-related drug discovery has focused on the use of secreted proteins to produce a desired therapeutic effect. Since the EST approach theoretically identifies all expressed proteins, it produces an EST  
25       library which contains a mixture of secreted proteins (such as hormones, cytokines and receptors) and non-secreted proteins (such as, for example, metabolic enzymes and cellular structural proteins), without identifying which ESTs correspond to proteins falling into either category. As a result, these methods are not optimally tailored to the needs of investigators searching for secreted proteins because they must separate the secreted "wheat" from the non-  
30       secreted "chaff", wasting effort and resources in the process.

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Co-assigned U.S. Patent No. 5,536,637, which is incorporated herein by reference, provides methods for focusing genomic sequencing efforts on sequences encoding the secreted proteins which are of most interest for identification of protein therapeutics. The '637 patent discloses a "signal sequence trap" which selectively identifies ESTs for secreted proteins,  
5 namely "secreted expressed sequence tags" or "sESTs". It is to these sESTs that the present invention is directed.



### SUMMARY OF THE INVENTION

The present invention provides for sESTs isolated from a variety of human RNA/cDNA sources.

In preferred embodiments, the present invention provides an isolated polynucleotide  
5 comprising a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

In other embodiments, the present invention provides an isolated polynucleotide  
 consisting of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

20 In further embodiments, the present invention provides an isolated polynucleotide  
 consisting essentially of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

In yet other embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group

30 consisting of:

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 NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;  
 or to a complement of said sequence.

The invention also provides for proteins encoded by the above-described  
 5 polynucleotides.

### DETAILED DESCRIPTION

The nucleotide sequences of the sESTs of the present invention are reported in the  
 Sequence Listing below. Table 2 lists the "Clone ID Nos." assigned by applicants to each  
 10 SEQ ID NO: in the Sequence Listing.

Table 2

Each pair of entries in this table consists of the SEQ ID NO (e.g., 1, 2, etc.)  
 followed by the Clone ID No. for such sequence (e.g., B11, B18, etc.).

15	1	B11	21	C3	41	C639	61	D148
	2	B18	22	C32	42	C641	62	D154
	3	B21	23	C141	43	C642	63	D167
	4	B26	24	C143	44	C645	64	D179
	5	B40	25	C180	45	D4	65	D188
20	6	B115	26	C195	46	D7	66	D196
	7	B121	27	C293	47	D14	67	D200
	8	B124	28	C312	48	D15	68	D203
	9	B125	29	C539	49	D27	69	D233
	10	B142	30	C544	50	D68	70	D252
25	11	B196	31	C547	51	D69	71	D286
	12	B208	32	C571	52	D81	72	D303
	13	B224	33	C604	53	D100	73	D304
	14	B227	34	C607	54	D101	74	D305
	15	B232	35	C608	55	D104	75	D310
30	16	B236	36	C610	56	D105	76	D311
	17	B238	37	C617	57	D115	77	D318
	18	B255	38	C626	58	D121	78	D327
	19	C1	39	C627	59	D133	79	D329
	20	C2	40	C636	60	D143	80	E1

	81	E4	115	H291	149	J139	183	M141
	82	E5	116	H306	150	J143	184	M152
	83	E11	117	H383	151	J156	185	M194
	84	E12	118	H426	152	J168	186	M230
5	85	E14	119	H438	153	J297	187	M273
	86	E18	120	H541	154	J317	188	M292
	87	G1	121	H545	155	J322	189	M301
	88	G12	122	H657	156	J422	190	M313
	89	G16	123	H698	157	J435	191	M328
10	90	G20	124	H758	158	J509	192	M338
	91	G21	125	H770	159	J512	193	O7
	92	G26	126	H849	160	J532	194	O47
	93	G31	127	H920	161	J546	195	O67
	94	G40	128	H978	162	J598	196	O75
15	95	G46	129	H999	163	J635	197	O99
	96	G53	130	H1004	164	J638	198	O135
	97	G55	131	H1010	165	J708	199	O139
	98	G58	132	H1045	166	J731	200	O268
	99	G68	133	H1052	167	M4	201	O276
20	100	G85	134	H1075	168	M6	202	O289
	101	G86	135	H1096	169	M43	203	O338
	102	G99	136	H1116	170	M60	204	O349
	103	G103	137	H1165	171	M68	205	O351
	104	G107	138	H1301	172	M71	206	O372
25	105	G108	139	H1408	173	M88	207	O386
	106	G112	140	H1413	174	M97	208	O417
	107	G114	141	H1456	175	M100	209	O418
	108	H45	142	I5	176	M114	210	O463
	109	H162	143	I28	177	M120	211	S10
30	110	H165	144	I32	178	M121	212	S34
	111	H171	145	J5	179	M125	213	S70
	112	H174	146	J54	180	M126	214	S169
	113	H225	147	J66	181	M128	215	S185
	114	H236	148	J135	182	M137	216	S195

	217	AA20	251	AJ6	285	AM72	319	AP137
	218	AA35	252	AJ8	286	AM93	320	AP76
	219	AB10	253	AJ52	287	AK679	321	AP87
	220	AA240	254	AJ53	288	AK684	322	AP90
5	221	AA244	255	AJ54	289	AK699	323	AP150
	222	AA246	256	AJ78	290	AM155	324	AP159
	223	AA287	257	AJ80	291	AM167	325	AP160
	224	AA299	258	AK368	292	AM207	326	AP162
	225	AA318	259	AJ127	293	AM217	327	AP168
10	226	AB45	260	AJ142	294	AM224	328	AP179
	227	AA36	261	AJ143	295	AM226	329	AP197
	228	AA363	262	AC339	296	AM235	330	AP215
	229	AA365	263	AC370	297	AM259	331	AP224
	230	AA351	264	AL14	298	AM266	332	AP226
15	231	AB290	265	AK401	299	AM267	333	AP242
	232	AC41	266	AK438	300	AM277	334	AP250
	233	AC18	267	AK583	301	AM279	335	AQ11
	234	AC175	268	AK585	302	AC387	336	AQ2
	235	AC114	269	AK598	303	AC395	337	AQ21
20	236	AC111	270	AK604	304	AC410	338	AQ23
	237	AC100	271	AK609	305	AC412	339	AQ3
	238	AC222	272	AK620	306	AC423	340	AQ34
	239	AC325	273	AM10	307	AJ146	341	AQ5
	240	AI44	274	AM104	308	AJ147	342	AR15
25	241	AI6	275	AM123	309	AJ156	343	AR22
	242	AI86	276	AM137	310	AJ168	344	AR28
	243	AJ1	277	AM15	311	AJ169	345	AR3
	244	AJ10	278	AM16	312	AJ172	346	AR34
	245	AJ13	279	AM30	313	AJ173	347	AR42
30	246	AJ15	280	AM38	314	AJ174	348	AR54
	247	AJ20	281	AM39	315	AK528	349	AR61
	248	AJ21	282	AM42	316	AP116	350	AM282
	249	AJ26	283	AM46	317	AP120	351	AM307
	250	AJ27	284	AM66	318	AP135	352	AM349

	353	AM372	387	AR310	421	AM616	455	AM921
	354	AM392	388	AR323	422	AM622	456	AM931
	355	AM400	389	AR324	423	AM625	457	AM973
	356	AM430	390	AR325	424	AM666	458	AM996
5	357	AP11	391	AR349	425	AM686	459	AS56
	358	AP2	392	AR360	426	AM704	460	AS61
	359	AP56	393	AR364	427	AM726	461	AS63
	360	AP57	394	AR400	428	AM728	462	AS65
	361	AP58	395	AR415	429	AM735	463	AS83
10	362	AP60	396	AR417	430	AM741	464	AS85
	363	AP67	397	AM558	431	AM742	465	AS86
	364	AP7	398	AM566	432	AM754	466	AS88
	365	AQ53	399	AM600	433	AM781	467	AT107
	366	AQ54	400	AR420	434	AM795	468	AT111
15	367	AQ61	401	AR437	435	AM814	469	AT138
	368	AQ64	402	AR440	436	AM833	470	AT140
	369	AQ71	403	AR446	437	AM838	471	AT142
	370	AQ73	404	AR450	438	AT16	472	AT146
	371	AQ83	405	AR452	439	AT19	473	AT151
20	372	AM1075	406	AR455	440	AT20	474	AT157
	373	AM1076	407	AR463	441	AT4	475	AT181
	374	AM1083	408	AR464	442	AT53	476	AT97
	375	AR100	409	AR467	443	AT63	477	AS239
	376	AR69	410	AR474	444	AT64	478	AT226
25	377	AM1017	411	AR475	445	AT74	479	AT259
	378	AM1032	412	AS15	446	AT94	480	AT260
	379	AM1036	413	AS20	447	AT95	481	AT265
	380	AM1045	414	AS23	448	AM1000	482	AT280
	381	AM1060	415	AS31	449	AM856	483	AT340
30	382	AM1067	416	AS47	450	AM885	484	AT351
	383	AR253	417	AS48	451	AM889	485	AT352
	384	AK642	418	AS7	452	AM892	486	AT356
	385	AK647	419	AM610	453	AM910	487	AT359
	386	AK650	420	AM614	454	AM918	488	AT361

	489	AS252	523	AU161	557	AW106	591	BE28
	490	AS263	524	AU164	558	AW107	592	BE3
	491	AS264	525	AZ285	559	AW109	593	BE34
	492	AS268	526	AZ286	560	AW133	594	BE9
5	493	AS271	527	AZ287	561	AW140	595	AZ12
	494	AS294	528	AZ290	562	AW92	596	AZ22
	495	AS301	529	AZ188	563	AW95	597	AZ32
	496	AS330	530	AZ191	564	AW98	598	AZ45
	497	AS144	531	AZ204	565	BA185	599	AZ46
10	498	AS152	532	AZ219	566	BA204	600	BF143
	499	AS157	533	AW170	567	BA210	601	BF146
	500	AS162	534	AW176	568	BA226	602	BF157
	501	AS164	535	AW178	569	BG1	603	BF160
	502	AS167	536	AW179	570	BG13	604	BF169
15	503	AS180	537	AW182	571	BG3	605	BF171
	504	AS186	538	AW185	572	BG33	606	BF176
	505	AS187	539	AW189	573	BG36	607	BF178
	506	AU36	540	AW192	574	BG37	608	AS196
	507	AU39	541	AW194	575	BG40	609	AS202
20	508	AU43	542	AW199	576	BG43	610	AS209
	509	AU47	543	AW222	577	BG48	611	AS216
	510	AU50	544	AW231	578	BG58	612	AS230
	511	AU59	545	AZ261	579	BG72	613	AS232
	512	AU71	546	AZ264	580	BG73	614	AX101
25	513	AU101	547	AZ302	581	BF101	615	AX104
	514	AU102	548	AZ303	582	BF132	616	AX107
	515	AU105	549	AK649	583	AZ69	617	AX109
	516	AU106	550	AK663	584	BD51	618	AX122
	517	AU107	551	AR336	585	BD53	619	AX124
30	518	AU115	552	AR356	586	BD65	620	AX127
	519	AU118	553	AR398	587	BD66	621	AX128
	520	AU122	554	AR399	588	BD73	622	AX130
	521	AU138	555	AM1016	589	BD77	623	AX132
	522	AU139	556	AW105	590	BD80	624	AX136

	625	AX137	659	BG274	693	AW33	727	BG504
	626	AX143	660	BG276	694	AW36	728	BG510
	627	AX146	661	AX12	695	AW47	729	BG511
	628	AX51	662	AX17	696	AW49	730	BG513
5	629	AX55	663	AX256	697	AW52	731	BG516
	630	AX56	664	AX30	698	AW60	732	BG518
	631	AX60	665	AX32	699	AW66	733	BG526
	632	AX65	666	AX34	700	AW76	734	BG528
	633	AX78	667	AX49	701	AY241	735	BG552
10	634	AX80	668	AX6	702	AY259	736	BG553
	635	AX81	669	AX8	703	AY268	737	BG556
	636	AX92	670	AZ180	704	BA123	738	AX309
	637	AX97	671	BG191	705	BA134	739	AX315
	638	AX98	672	BG193	706	BA170	740	AX318
15	639	AX99	673	BG199	707	BA176	741	AY186
	640	AZ109	674	BG201	708	BA178	742	AY190
	641	AZ114	675	BG219	709	BA179	743	AY200
	642	BF286	676	BG220	710	BA216	744	AY208
	643	BF290	677	BG221	711	BA233	745	AY211
20	644	BF314	678	BG225	712	BD372	746	AY283
	645	BG236	679	BG228	713	BD375	747	AY289
	646	BG237	680	BG442	714	BD379	748	AY304
	647	BG240	681	BG449	715	BD380	749	AY307
	648	BG241	682	BG457	716	BD403	750	AY318
25	649	BG248	683	BG458	717	BD407	751	AY333
	650	BG249	684	BG461	718	BD409	752	AY334
	651	BG250	685	BG465	719	BD413	753	AY342
	652	BG251	686	BG467	720	BD414	754	AY358
	653	BG255	687	BG471	721	BG481	755	AY362
30	654	BG260	688	BG59	722	BG482	756	BF190
	655	BG267	689	AW12	723	BG492	757	BF191
	656	BG271	690	AW22	724	BG494	758	BF193
	657	BG272	691	AW24	725	BG495	759	BF197
	658	BG273	692	AW32	726	BG503	760	BF208

	761	BF211	795	BG373	829	BD174	863	BI17
	762	BF216	796	BG374	830	BD176	864	BI2
	763	BF221	797	BG379	831	BD177	865	BI24
	764	BF227	798	BG386	832	BD178	866	BI25
5	765	BF228	799	BG388	833	BD183	867	BI3
	766	BF245	800	BG389	834	BE50	868	BI36
	767	BF250	801	BG391	835	BE64	869	BI37
	768	BF258	802	BG393	836	BE89	870	BI39
	769	BF259	803	BG396	837	BG490	871	BI40
10	770	BF263	804	BG409	838	BG491	872	BI41
	771	BF270	805	BG411	839	BG501	873	BI46
	772	BF273	806	BG414	840	BG502	874	BM1
	773	BG280	807	BG420	841	BG512	875	BM17
	774	BG283	808	HW105	842	BG532	876	BM4
15	775	BG284	809	BB54	843	BK162	877	BM41
	776	BG288	810	BD101	844	BK165	878	BM46
	777	BG296	811	BD104	845	BK167	879	BM69
	778	BG305	812	BD107	846	BK171	880	BM88
	779	BG306	813	BD109	847	BK179	881	BM90
20	780	BG309	814	BD119	848	BK180	882	BA106
	781	BG324	815	BD121	849	BK183	883	BA12
	782	BG327	816	BD127	850	BK186	884	BA32
	783	BG329	817	BD128	851	BK194	885	BA38
	784	BG332	818	BD132	852	BK200	886	BA40
25	785	BG334	819	BD136	853	BK206	887	BA71
	786	BG335	820	BD137	854	BK216	888	BA79
	787	BG350	821	BD140	855	BK231	889	BA8
	788	BG356	822	BD144	856	BK232	890	BA88
	789	BG357	823	BD151	857	BK236	891	BA90
30	790	BG363	824	BD154	858	BK237	892	BA91
	791	BG365	825	BD164	859	BK241	893	BA98
	792	BG366	826	BD165	860	BK243	894	BK15
	793	BG368	827	BD169	861	BK246	895	BK17
	794	BG372	828	BD170	862	BK253	896	BK24



	897	BK257	931	AY428	965	BK146	999	BG139
	898	BK26	932	AY437	966	BK155	1000	BG140
	899	BK260	933	AY440	967	BK158	1001	BG141
	900	BK265	934	AY442	968	BK75	1002	BG142
5	901	BK270	935	AY449	969	BK78	1003	BG145
	902	BK271	936	AY457	970	BK92	1004	BG148
	903	BK280	937	AY470	971	BK93	1005	BG151
	904	BK284	938	AY487	972	BK95	1006	BG156
	905	BK286	939	AY489	973	BK96	1007	BG158
10	906	BK29	940	AY511	974	BM101	1008	BG160
	907	BK291	941	BE153	975	BM117	1009	BG168
	908	BK295	942	BF327	976	BM124	1010	BG170
	909	BK296	943	BI64	977	BM139	1011	BG171
	910	BK299	944	BI66	978	BM154	1012	BG172
15	911	BK304	945	BI75	979	BM155	1013	BG173
	912	BK307	946	BI80	980	BM158	1014	BG93
	913	BK308	947	BI81	981	BM94	1015	BG95
	914	BK339	948	BI82	982	AY102	1016	BI102
	915	BK34	949	BI86	983	AY107	1017	BI103
20	916	BK343	950	BI87	984	AY122	1018	BI107
	917	BK40	951	BI88	985	AY131	1019	BI110
	918	BK41	952	BI91	986	AY137	1020	BI114
	919	BK48	953	BI92	987	AY140	1021	BI117
	920	BK49	954	BK102	988	AY147	1022	BI120
25	921	BK57	955	BK105	989	AY157	1023	BI122
	922	BK59	956	BK107	990	AY160	1024	BI124
	923	BK61	957	BK112	991	AY183	1025	BI126
	924	BK68	958	BK114	992	AY93	1026	BI127
	925	BL341	959	BK115	993	BG102	1027	BI129
30	926	AY398	960	BK117	994	BG104	1028	BI133
	927	AY406	961	BK120	995	BG112	1029	BI139
	928	AY407	962	BK130	996	BG125	1030	BI150
	929	AY408	963	BK134	997	BG132	1031	BI164
	930	AY421	964	BK142	998	BG137	1032	BI97

	1033	BI98	1067	BQ58	1101	BO71	1135	BL209
	1034	BI99	1068	BD189	1102	BO87	1136	BL210
	1035	BS1	1069	BD194	1103	BO9	1137	BL211
	1036	BS54	1070	BD199	1104	BD235	1138	BL219
5	1037	BS58	1071	BD200	1105	BD240	1139	BL220
	1038	BS81	1072	BD201	1106	BD241	1140	BL229
	1039	BS89	1073	BD208	1107	BD244	1141	BL230
	1040	BH100	1074	BD209	1108	BD247	1142	BL243
	1041	BH106	1075	BD213	1109	BD251	1143	BL247
10	1042	BH111	1076	BD214	1110	BD257	1144	BL249
	1043	BH123	1077	BD222	1111	BD260	1145	BL255
	1044	BH131	1078	BH19	1112	BD262	1146	BL257
	1045	BH157	1079	BH195	1113	BD265	1147	BL271
	1046	BH297	1080	BH2	1114	BD268	1148	BL274
15	1047	BH306	1081	BH227	1115	BD522	1149	BL30
	1048	BH309	1082	BH272	1116	BD538	1150	BL67
	1049	BH316	1083	BH276	1117	BD544	1151	BL73
	1050	BH323	1084	BH281	1118	BD548	1152	BL89
	1051	BH339	1085	BH41	1119	BD561	1153	BD420
20	1052	BH365	1086	BH51	1120	BL147	1154	BD423
	1053	BH389	1087	BH66	1121	BL15	1155	BD426
	1054	BH392	1088	BH7	1122	BL152	1156	BD427
	1055	BJ54	1089	BH87	1123	BL156	1157	BD428
	1056	BJ62	1090	BH90	1124	BL160	1158	BD438
25	1057	BJ66	1091	BJ20	1125	BL178	1159	BD441
	1058	BJ67	1092	BJ27	1126	BL179	1160	BD445
	1059	BJ69	1093	BJ29	1127	BL183	1161	BD473
	1060	BJ70	1094	BJ38	1128	BL185	1162	BD486
	1061	BJ75	1095	BJ39	1129	BL186	1163	BD489
30	1062	BJ76	1096	BJ9	1130	BL187	1164	BD492
	1063	BJ78	1097	BO11	1131	BL194	1165	BD512
	1064	BJ87	1098	BO20	1132	BL196	1166	BL106
	1065	BQ20	1099	BO4	1133	BL201	1167	BL310
	1066	BQ3	1100	BO52	1134	BL205	1168	BN1

	1169	BN107	1203	BD351	1237	BN351	1271	BP22
	1170	BN12	1204	BN189	1238	BN354	1272	BP24
	1171	BN130	1205	BN201	1239	BN365	1273	BP25
	1172	BN132	1206	BN212	1240	BN422	1274	BT99
5	1173	BN133	1207	BN280	1241	BN425	1275	BP28
	1174	BN139	1208	BN284	1242	BN439	1276	BP3
	1175	BN141	1209	BN329	1243	BN460	1277	BP4
	1176	BN153	1210	BN331	1244	BN461	1278	BP43
	1177	BN156	1211	BN591	1245	BN463	1279	BP47
10	1178	BN171	1212	BO153	1246	BN472	1280	BP504
	1179	BN174	1213	BO157	1247	BN473	1281	BP506
	1180	BN180	1214	BO159	1248	BO100	1282	BP508
	1181	BN246	1215	BO166	1249	BO107	1283	BP521
	1182	BN267	1216	BO178	1250	BO114	1284	BP528
15	1183	BN268	1217	BO189	1251	BO121	1285	BP530
	1184	BN33	1218	BO194	1252	BO126	1286	BP532
	1185	BN40	1219	BO210	1253	BO133	1287	BP537
	1186	BN48	1220	BO212	1254	BO137	1288	BP544
	1187	BN5	1221	BO213	1255	BO398	1289	BP545
20	1188	BN563	1222	BO218	1256	BO399	1290	BP55
	1189	BN65	1223	BO226	1257	BO401	1291	BP567
	1190	BN69	1224	BO279	1258	BO432	1292	BP569
	1191	BN81	1225	BO301	1259	BO528	1293	BP57
	1192	BN97	1226	BO323	1260	BO535	1294	BP590
25	1193	BN99	1227	BO358	1261	BO538	1295	BP61
	1194	BD286	1228	BO365	1262	BO549	1296	BP70
	1195	BD288	1229	BO385	1263	BO551	1297	BP71
	1196	BD297	1230	BO250	1264	BO93	1298	BP780
	1197	BD316	1231	BO254	1265	BP101	1299	BP783
30	1198	BD317	1232	BO256	1266	BP118	1300	BP784
	1199	BD321	1233	BO260	1267	BP121	1301	BP791
	1200	BD327	1234	BO261	1268	BP15	1302	BP797
	1201	BD335	1235	BO273	1269	BP19	1303	BP806
	1202	BD339	1236	BN342	1270	BP21	1304	BP809

	1305	BP810	1339	BV243	1373	CC71	1407	BR572
	1306	BP813	1340	BV248	1374	CC76	1408	BR559
	1307	BP814	1341	BV250	1375	CC78	1409	BR538
	1308	BP815	1342	BV259	1376	CC81	1410	BR537
5	1309	BP820	1343	BV273	1377	CC89	1411	BR533
	1310	BP84	1344	BV275	1378	CD124	1412	BR500
	1311	BP919	1345	BV49	1379	CD128	1413	BR48
	1312	BP925	1346	BV51	1380	CD140	1414	BR475
	1313	BQ115	1347	BV66	1381	CD145	1415	BR436
10	1314	BQ129	1348	BV70	1382	CD146	1416	BR434
	1315	BS116	1349	BV71	1383	CD173	1417	BR4
	1316	BT101	1350	BV72	1384	CD194	1418	BR346
	1317	BT133	1351	BV73	1385	CD31	1419	BR342
	1318	BT139	1352	BV88	1386	CD50	1420	BR338
15	1319	BT33	1353	BW345	1387	CF50	1421	BR333
	1320	BT4	1354	CB25	1388	CF62	1422	BR332
	1321	BW13	1355	CB3	1389	CF78	1423	BR212
	1322	BW18	1356	CB30	1390	CF85	1424	BR195
	1323	BW2	1357	CB37	1391	CF89	1425	BR194
20	1324	BW51	1358	CC144	1392	BR814	1426	BR19
	1325	BW61	1359	CC145	1393	BR782	1427	BR141
	1326	BW83	1360	CC149	1394	BR778	1428	BR122
	1327	BV185	1361	CC153	1395	BR77	1429	BR107
	1328	BV195	1362	CC162	1396	BR767	1430	BR1010
25	1329	BV200	1363	CC25	1397	BR758	1431	BR101
	1330	BV202	1364	CC31	1398	BR733	1432	BR1008
	1331	BV204	1365	CC322	1399	BR719	1433	BQ135
	1332	BV206	1366	CC39	1400	BR711	1434	BP913
	1333	BV210	1367	CC397	1401	BR71	1435	BP911
30	1334	BV212	1368	CC403	1402	BR63	1436	BP897
	1335	BV227	1369	CC46	1403	BR616	1437	BP895
	1336	BV238	1370	CC50	1404	BR610	1438	BP894
	1337	BV239	1371	CC59	1405	BR607	1439	BP893
	1338	BV241	1372	CC69	1406	BR595	1440	BP884

	1441	BP883	1475	BU65
	1442	BP875	1476	BU68
	1443	BP870	1477	BU76
	1444	BP859	1478	BV106
5	1445	BP837	1479	BV112
	1446	BP833	1480	BV123
	1447	BP499	1481	BV124
	1448	BP492	1482	BV126
	1449	BP488	1483	BV128
10	1450	BP484	1484	BV131
	1451	BP483	1485	BV133
	1452	BP481	1486	BV134
	1453	BP475	1487	BV135
	1454	BN418	1488	BV138
15	1455	BN415	1489	BV139
	1456	BN405	1490	BV140
	1457	BN394	1491	BV141
	1458	BN390	1492	BV145
	1459	BN387	1493	BV15
20	1460	BN379	1494	BV158
	1461	BN377	1495	BV160
	1462	BR84	1496	BV172
	1463	BR853	1497	BV180
	1464	BR854	1498	BV21
25	1465	BR884	1499	BV27
	1466	BT160	1500	BV29
	1467	BU165		
	1468	BU29		
	1469	BU44		
30	1470	BU45		
	1471	BU53		
	1472	BU57		
	1473	BU6		
	1474	BU60		

The "Clone ID No." for a particular clone consists of one or two letters followed by a number. The letters designate the tissue source from which the sEST was isolated. Table 3 below lists the various sources which were run through applicants' signal sequence trap. Thus, the tissue source for a particular sEST sequence can be identified in Table 3 by the one and two letter designations used in the relevant "Clone ID No.". For example, a clone designated as "BA312" would have been isolated from a human placenta (26 yrs.) library (i.e., selectin "BA") as indicated in Table 3.

As used herein, "polynucleotide" includes single- and double-stranded RNAs, DNAs and RNA:DNA hybrids.

As used herein a "secreted" protein is one which, when expressed in a suitable host cell, is transported across or through a membrane, including transport as a result of signal sequences in its amino acid sequence. "Secreted" proteins include without limitation proteins secreted wholly (e.g., soluble proteins) or partially (e.g., receptors) from the cell in which they are expressed. "Secreted" proteins also include without limitation proteins which are transported across the membrane of the endoplasmic reticulum.

Fragments of the proteins of the present invention which are capable of exhibiting biological activity are also encompassed by the present invention. Fragments of the protein may be in linear form or they may be cyclized using known methods, for example, as described in H.U. Saragovi, *et al.*, Bio/Technology 10, 773-778 (1992) and in R.S. McDowell, *et al.*, J. Amer. Chem. Soc. 114, 9245-9253 (1992), both of which are incorporated herein by reference. Such fragments may be fused to carrier molecules such as immunoglobulins for many purposes, including increasing the valency of protein binding sites. For example, fragments of the protein may be fused through "linker" sequences to the Fc portion of an immunoglobulin. For a bivalent form of the protein, such a fusion could be to the Fc portion of an IgG molecule. Other immunoglobulin isotypes may also be used to generate such fusions. For example, a protein - IgM fusion would generate a decavalent form of the protein of the invention.

The present invention also provides both full-length and mature forms of the disclosed proteins. The full-length form of the such proteins is identified in the sequence listing by translation of the nucleotide sequence of each disclosed clone. The mature form of such protein may be obtained by expression of the disclosed full-length polynucleotide (preferably those deposited with ATCC) in a suitable mammalian cell or other host cell. The sequence of the mature form of the protein may also be determinable from the amino acid sequence of the full-length form.

The present invention also provides genes corresponding to the cDNA sequences disclosed herein. The corresponding genes can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include the preparation of probes or primers from the disclosed sequence information for identification and/or amplification of genes in appropriate genomic libraries or other sources of genomic materials.

Where the protein of the present invention is membrane-bound (e.g., is a receptor), the present invention also provides for soluble forms of such protein. In such forms part or all of the intracellular and transmembrane domains of the protein are deleted such that the protein is fully secreted from the cell in which it is expressed. The intracellular and transmembrane domains of proteins of the invention can be identified in accordance with known techniques for determination of such domains from sequence information.

Species homologs of the disclosed polynucleotides and proteins are also provided by the present invention. Species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source from the desired species.

The invention also encompasses allelic variants of the disclosed polynucleotides or proteins; that is, naturally-occurring alternative forms of the isolated polynucleotide which also encode proteins which are identical, homologous or related to that encoded by the polynucleotides disclosed herein.

The invention also includes polynucleotides with sequences complementary to those of the polynucleotides disclosed herein.

The present invention also includes polynucleotides capable of hybridizing, preferably under reduced stringency conditions, more preferably under stringent conditions, most preferably under highly stringent conditions, to polynucleotides described herein. Examples of stringency conditions are shown in Table 1 below: highly stringent conditions are those that are at least as stringent as, for example, conditions A-F; stringent conditions are at least as stringent as, for example, conditions G-L; and reduced stringency conditions are at least as stringent as, for example, conditions M-R.

Table I

	Stringency Condition	Polynucleotide Hybrid	Hybrid Length (bp) <sup>†</sup>	Hybridization Temperature and Buffer <sup>†</sup>	Wash Temperature and Buffer <sup>†</sup>
5	A	DNA:DNA	≥ 50	65°C; 1xSSC -or- 42°C; 1xSSC, 50% formamide	65°C; 0.3xSSC
	B	DNA:DNA	< 50	T <sub>B</sub> *; 1xSSC	T <sub>B</sub> *; 1xSSC
	C	DNA:RNA	≥ 50	67°C; 1xSSC -or- 45°C; 1xSSC, 50% formamide	67°C; 0.3xSSC
	D	DNA:RNA	< 50	T <sub>D</sub> *; 1xSSC	T <sub>D</sub> *; 1xSSC
	E	RNA:RNA	≥ 50	70°C; 1xSSC -or- 50°C; 1xSSC, 50% formamide	70°C; 0.3xSSC
10	F	RNA:RNA	< 50	T <sub>F</sub> *; 1xSSC	T <sub>F</sub> *; 1xSSC
	G	DNA:DNA	≥ 50	65°C; 4xSSC -or- 42°C; 4xSSC, 50% formamide	65°C; 1xSSC
	H	DNA:DNA	< 50	T <sub>H</sub> *; 4xSSC	T <sub>H</sub> *; 4xSSC
	I	DNA:RNA	≥ 50	67°C; 4xSSC -or- 45°C; 4xSSC, 50% formamide	67°C; 1xSSC
	J	DNA:RNA	< 50	T <sub>J</sub> *; 4xSSC	T <sub>J</sub> *; 4xSSC
15	K	RNA:RNA	≥ 50	70°C; 4xSSC -or- 50°C; 4xSSC, 50% formamide	67°C; 1xSSC
	L	RNA:RNA	< 50	T <sub>L</sub> *; 2xSSC	T <sub>L</sub> *; 2xSSC
	M	DNA:DNA	≥ 50	50°C; 4xSSC -or- 40°C; 6xSSC, 50% formamide	50°C; 2xSSC
	N	DNA:DNA	< 50	T <sub>N</sub> *; 6xSSC	T <sub>N</sub> *; 6xSSC
	O	DNA:RNA	≥ 50	55°C; 4xSSC -or- 42°C; 6xSSC, 50% formamide	55°C; 2xSSC
20	P	DNA:RNA	< 50	T <sub>P</sub> *; 6xSSC	T <sub>P</sub> *; 6xSSC
	Q	RNA:RNA	≥ 50	60°C; 4xSSC -or- 45°C; 6xSSC, 50% formamide	60°C; 2xSSC
	R	RNA:RNA	< 50	T <sub>R</sub> *; 4xSSC	T <sub>R</sub> *; 4xSSC



sequence are situated within a vector or cell in such a way that the protein is expressed by a host cell which has been transformed (transfected) with the ligated polynucleotide/expression control sequence.

5 A number of types of cells may act as suitable host cells for expression of the protein. Mammalian host cells include, for example, monkey COS cells, Chinese Hamster Ovary (CHO) cells, human kidney 293 cells, human epidermal A431 cells, human Colo205 cells, 3T3 cells, CV-1 cells, other transformed primate cell lines, normal diploid cells, cell strains derived from *in vitro* culture of primary tissue, primary explants, HeLa cells, mouse L cells, BHK, HL-60, U937, HaK or Jurkat cells.

10 Alternatively, it may be possible to produce the protein in lower eukaryotes such as yeast or in prokaryotes such as bacteria. Potentially suitable yeast strains include *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, *Kluyveromyces* strains, *Candida*, or any yeast strain capable of expressing heterologous proteins. Potentially suitable bacterial strains include *Escherichia coli*, *Bacillus subtilis*, *Salmonella typhimurium*, or any  
15 bacterial strain capable of expressing heterologous proteins. If the protein is made in yeast or bacteria, it may be necessary to modify the protein produced therein, for example by phosphorylation or glycosylation of the appropriate sites, in order to obtain the functional protein. Such covalent attachments may be accomplished using known chemical or enzymatic methods.

20 The protein may also be produced by operably linking the isolated polynucleotide of the invention to suitable control sequences in one or more insect expression vectors, and employing an insect expression system. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, *e.g.*, Invitrogen, San Diego, California, U.S.A. (the MaxBac® kit), and such methods are well known in the art,  
25 as described in Summers and Smith, Texas Agricultural Experiment Station Bulletin No. 1555 (1987), incorporated herein by reference. As used herein, an insect cell capable of expressing a polynucleotide of the present invention is "transformed."

The protein of the invention may be prepared by culturing transformed host cells under culture conditions suitable to express the recombinant protein. The resulting  
30 expressed protein may then be purified from such culture (i.e., from culture medium or cell extracts) using known purification processes, such as gel filtration and ion exchange chromatography. The purification of the protein may also include an affinity column containing agents which will bind to the protein; one or more column steps over such affinity resins as concanavalin A-agarose, heparin-toyopearl® or Cibacrom blue 3GA

Sepharose®; one or more steps involving hydrophobic interaction chromatography using such resins as phenyl ether, butyl ether, or propyl ether; or immunoaffinity chromatography.

Alternatively, the protein of the invention may also be expressed in a form which will facilitate purification. For example, it may be expressed as a fusion protein, such as those of maltose binding protein (MBP), glutathione-S-transferase (GST) or thioredoxin (TRX). Kits for expression and purification of such fusion proteins are commercially available from New England BioLab (Beverly, MA), Pharmacia (Piscataway, NJ) and InVitrogen, respectively. The protein can also be tagged with an epitope and subsequently purified by using a specific antibody directed to such epitope. One such epitope ("Flag") is commercially available from Kodak (New Haven, CT).

Finally, one or more reverse-phase high performance liquid chromatography (RP-HPLC) steps employing hydrophobic RP-HPLC media, e.g., silica gel having pendant methyl or other aliphatic groups, can be employed to further purify the protein. Some or all of the foregoing purification steps, in various combinations, can also be employed to provide a substantially homogeneous isolated recombinant protein. The protein thus purified is substantially free of other mammalian proteins and is defined in accordance with the present invention as an "isolated protein."

The protein of the invention may also be expressed as a product of transgenic animals, e.g., as a component of the milk of transgenic cows, goats, pigs, or sheep which are characterized by somatic or germ cells containing a nucleotide sequence encoding the protein.

The protein may also be produced by known conventional chemical synthesis. Methods for constructing the proteins of the present invention by synthetic means are known to those skilled in the art. The synthetically-constructed protein sequences, by virtue of sharing primary, secondary or tertiary structural and/or conformational characteristics with proteins may possess biological properties in common therewith, including protein activity. Thus, they may be employed as biologically active or immunological substitutes for natural, purified proteins in screening of therapeutic compounds and in immunological processes for the development of antibodies.

The proteins provided herein also include proteins characterized by amino acid sequences similar to those of purified proteins but into which modification are naturally provided or deliberately engineered. For example, modifications in the peptide or DNA sequences can be made by those skilled in the art using known techniques. Modifications

of interest in the protein sequences may include the alteration, substitution, replacement, insertion or deletion of a selected amino acid residue in the coding sequence. For example, one or more of the cysteine residues may be deleted or replaced with another amino acid to alter the conformation of the molecule. Techniques for such alteration, substitution, replacement, insertion or deletion are well known to those skilled in the art (see, e.g., U.S. Patent No. 4,518,584). Preferably, such alteration, substitution, replacement, insertion or deletion retains the desired activity of the protein.

Other fragments and derivatives of the sequences of proteins which would be expected to retain protein activity in whole or in part and may thus be useful for screening or other immunological methodologies may also be easily made by those skilled in the art given the disclosures herein. Such modifications are believed to be encompassed by the present invention.

### USES AND BIOLOGICAL ACTIVITY

The polynucleotides and proteins of the present invention are expected to exhibit one or more of the uses or biological activities (including those associated with assays cited herein) identified below. Uses or activities described for proteins of the present invention  
5 may be provided by administration or use of such proteins or by administration or use of polynucleotides encoding such proteins (such as, for example, in gene therapies or vectors suitable for introduction of DNA).

#### Research Uses and Utilities

10 The polynucleotides provided by the present invention can be used by the research community for various purposes. The primary use of polynucleotides of the invention which are sESTs is as probes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond (i.e., is a longer polynucleotide sequence of which substantially the entire sEST is a fragment in the case of a full-length cDNA, or  
15 which encodes the sEST in the case of a genomic DNA molecule) to such sESTs. Techniques for use of such sequences as probes for larger cDNAs or genomic molecules are well known in the art.

The polynucleotides can also be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding  
20 protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in disease states); as molecular weight markers on Southern gels; as chromosome markers or tags (when labeled) to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and thus discover novel, related  
25 DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to "subtract-out" known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a "gene chip" or other support, including for examination of expression patterns; to raise anti-protein antibodies using DNA immunization techniques; and as an antigen to raise anti-  
30 DNA antibodies or elicit another immune response. Where the polynucleotide encodes a protein which binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the polynucleotide can also be used in interaction trap assays (such as, for example, that described in Gyuris et al., Cell 75:791-803 (1993)) to identify

A protein of the present invention may exhibit cytokine, cell proliferation (either inducing or inhibiting) or cell differentiation (either inducing or inhibiting) activity or may induce production of other cytokines in certain cell populations. Many protein factors discovered to date, including all known cytokines, have exhibited activity in one or more factor dependent cell proliferation assays, and hence the assays serve as a convenient confirmation of cytokine activity. The activity of a protein of the present invention is evidenced by any one of a number of routine factor dependent cell proliferation assays for cell lines including, without limitation, 32D, DA2, DA1G, T10, B9, B9/11, BaF3, MC9/G, M+ (preB M+), 2E8, RB5, DA1, 123, T1165, HT2, CTLL2, TF-1, Mo7e and CMK.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for T-cell or thymocyte proliferation include without limitation those described in: *Current Protocols in Immunology*, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., *J. Immunol.* 137:3494-3500, 1986; Bertagnolli et al., *J. Immunol.* 145:1706-1712, 1990; Bertagnolli et al., *Cellular Immunology* 133:327-341, 1991; Bertagnolli, et al., *J. Immunol.* 149:3778-3783, 1992; Bowman et al., *J. Immunol.* 152: 1756-1761, 1994.

Assays for cytokine production and/or proliferation of spleen cells, lymph node cells or thymocytes include, without limitation, those described in: Polyclonal T cell stimulation, Kruisbeek, A.M. and Shevach, E.M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.12.1-3.12.14, John Wiley and Sons, Toronto. 1994; and Measurement of mouse and human Interferon  $\gamma$ , Schreiber, R.D. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.8.1-6.8.8, John Wiley and Sons, Toronto. 1994.

Assays for proliferation and differentiation of hematopoietic and lymphopoietic cells include, without limitation, those described in: Measurement of Human and Murine Interleukin 2 and Interleukin 4, Bottomly, K., Davis, L.S. and Lipsky, P.E. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.3.1-6.3.12, John Wiley and Sons, Toronto. 1991; deVries et al., *J. Exp. Med.* 173:1205-1211, 1991; Moreau et al., *Nature* 336:690-692, 1988; Greenberger et al., *Proc. Natl. Acad. Sci. U.S.A.* 80:2931-2938, 1983; Measurement of mouse and human interleukin 6 - Nordan, R. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.6.1-6.6.5, John Wiley

and Sons, Toronto. 1991; Smith et al., Proc. Natl. Acad. Sci. U.S.A. 83:1857-1861, 1986; Measurement of human Interleukin 11 - Bennett, F., Giannotti, J., Clark, S.C. and Turner, K. J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.15.1 John Wiley and Sons, Toronto. 1991; Measurement of mouse and human Interleukin 9 -  
 5 Ciarletta, A., Giannotti, J., Clark, S.C. and Turner, K.J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.13.1, John Wiley and Sons, Toronto. 1991.

Assays for T-cell clone responses to antigens (which will identify, among others, proteins that affect APC-T cell interactions as well as direct T-cell effects by measuring proliferation and cytokine production) include, without limitation, those described in:  
 10 *Current Protocols in Immunology*, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function; Chapter 6, Cytokines and their cellular receptors; Chapter 7, Immunologic studies in Humans); Weinberger et al., Proc. Natl. Acad. Sci. USA 77:6091-6095, 1980; Weinberger et al., Eur. J. Immun.  
 15 11:405-411, 1981; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988.

#### Immune Stimulating or Suppressing Activity

A protein of the present invention may also exhibit immune stimulating or immune  
 20 suppressing activity, including without limitation the activities for which assays are described herein. A protein may be useful in the treatment of various immune deficiencies and disorders (including severe combined immunodeficiency (SCID)), e.g., in regulating (up or down) growth and proliferation of T and/or B lymphocytes, as well as effecting the cytolytic activity of NK cells and other cell populations. These immune deficiencies may  
 25 be genetic or be caused by viral (e.g., HIV) as well as bacterial or fungal infections, or may result from autoimmune disorders. More specifically, infectious diseases caused by viral, bacterial, fungal or other infection may be treatable using a protein of the present invention, including infections by HIV, hepatitis viruses, herpesviruses, mycobacteria, *Leishmania* spp., *malaria* spp. and various fungal infections such as candidiasis. Of course,  
 30 in this regard, a protein of the present invention may also be useful where a boost to the immune system generally may be desirable, i.e., in the treatment of cancer.

Autoimmune disorders which may be treated using a protein of the present invention include, for example, connective tissue disease, multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre

syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitus, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. Such a protein of the present invention may also be useful in the treatment of allergic reactions and conditions, such as asthma (particularly allergic asthma) or other respiratory problems. Other  
5 conditions, in which immune suppression is desired (including, for example, organ transplantation), may also be treatable using a protein of the present invention.

Using the proteins of the invention it may also be possible to immune responses, in a number of ways. Down regulation may be in the form of inhibiting or blocking an immune response already in progress or may involve preventing the induction of an immune  
10 response. The functions of activated T cells may be inhibited by suppressing T cell responses or by inducing specific tolerance in T cells, or both. Immunosuppression of T cell responses is generally an active, non-antigen-specific, process which requires continuous exposure of the T cells to the suppressive agent. Tolerance, which involves inducing non-responsiveness or anergy in T cells, is distinguishable from  
15 immunosuppression in that it is generally antigen-specific and persists after exposure to the tolerizing agent has ceased. Operationally, tolerance can be demonstrated by the lack of a T cell response upon reexposure to specific antigen in the absence of the tolerizing agent.

Down regulating or preventing one or more antigen functions (including without limitation B lymphocyte antigen functions (such as , for example, B7)), *e.g.*, preventing  
20 high level lymphokine synthesis by activated T cells, will be useful in situations of tissue, skin and organ transplantation and in graft-versus-host disease (GVHD). For example, blockage of T cell function should result in reduced tissue destruction in tissue transplantation. Typically, in tissue transplants, rejection of the transplant is initiated through its recognition as foreign by T cells, followed by an immune reaction that destroys  
25 the transplant. The administration of a molecule which inhibits or blocks interaction of a B7 lymphocyte antigen with its natural ligand(s) on immune cells (such as a soluble, monomeric form of a peptide having B7-2 activity alone or in conjunction with a monomeric form of a peptide having an activity of another B lymphocyte antigen (*e.g.*, B7-1, B7-3) or blocking antibody), prior to transplantation can lead to the binding of the  
30 molecule to the natural ligand(s) on the immune cells without transmitting the corresponding costimulatory signal. Blocking B lymphocyte antigen function in this manner prevents cytokine synthesis by immune cells, such as T cells, and thus acts as an immunosuppressant. Moreover, the lack of costimulation may also be sufficient to anergize the T cells, thereby inducing tolerance in a subject. Induction of long-term tolerance by B lymphocyte antigen-

blocking reagents may avoid the necessity of repeated administration of these blocking reagents. To achieve sufficient immunosuppression or tolerance in a subject, it may also be necessary to block the function of a combination of B lymphocyte antigens.

The efficacy of particular blocking reagents in preventing organ transplant rejection or GVHD can be assessed using animal models that are predictive of efficacy in humans. Examples of appropriate systems which can be used include allogeneic cardiac grafts in rats and xenogeneic pancreatic islet cell grafts in mice, both of which have been used to examine the immunosuppressive effects of CTLA4Ig fusion proteins *in vivo* as described in Lenschow *et al.*, Science 257:789-792 (1992) and Turka *et al.*, Proc. Natl. Acad. Sci USA, 89:11102-11105 (1992). In addition, murine models of GVHD (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 846-847) can be used to determine the effect of blocking B lymphocyte antigen function *in vivo* on the development of that disease.

Blocking antigen function may also be therapeutically useful for treating autoimmune diseases. Many autoimmune disorders are the result of inappropriate activation of T cells that are reactive against self tissue and which promote the production of cytokines and autoantibodies involved in the pathology of the diseases. Preventing the activation of autoreactive T cells may reduce or eliminate disease symptoms. Administration of reagents which block costimulation of T cells by disrupting receptor:ligand interactions of B lymphocyte antigens can be used to inhibit T cell activation and prevent production of autoantibodies or T cell-derived cytokines which may be involved in the disease process. Additionally, blocking reagents may induce antigen-specific tolerance of autoreactive T cells which could lead to long-term relief from the disease. The efficacy of blocking reagents in preventing or alleviating autoimmune disorders can be determined using a number of well-characterized animal models of human autoimmune diseases. Examples include murine experimental autoimmune encephalitis, systemic lupus erythematosus in MRL/lpr/lpr mice or NZB hybrid mice, murine autoimmune collagen arthritis, diabetes mellitus in NOD mice and BB rats, and murine experimental myasthenia gravis (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 840-856).

Upregulation of an antigen function (preferably a B lymphocyte antigen function), as a means of up regulating immune responses, may also be useful in therapy. Upregulation of immune responses may be in the form of enhancing an existing immune response or eliciting an initial immune response. For example, enhancing an immune response through stimulating B lymphocyte antigen function may be useful in cases of viral



infection. In addition, systemic viral diseases such as influenza, the common cold, and encephalitis might be alleviated by the administration of stimulatory forms of B lymphocyte antigens systemically.

Alternatively, anti-viral immune responses may be enhanced in an infected patient  
5 by removing T cells from the patient, costimulating the T cells *in vitro* with viral antigen-pulsed APCs either expressing a peptide of the present invention or together with a stimulatory form of a soluble peptide of the present invention and reintroducing the *in vitro* activated T cells into the patient. Another method of enhancing anti-viral immune responses would be to isolate infected cells from a patient, transfect them with a nucleic acid encoding  
10 a protein of the present invention as described herein such that the cells express all or a portion of the protein on their surface, and reintroduce the transfected cells into the patient. The infected cells would now be capable of delivering a costimulatory signal to, and thereby activate, T cells *in vivo*.

In another application, up regulation or enhancement of antigen function (preferably  
15 B lymphocyte antigen function) may be useful in the induction of tumor immunity. Tumor cells (*e.g.*, sarcoma, melanoma, lymphoma, leukemia, neuroblastoma, carcinoma) transfected with a nucleic acid encoding at least one peptide of the present invention can be administered to a subject to overcome tumor-specific tolerance in the subject. If desired, the tumor cell can be transfected to express a combination of peptides. For example, tumor  
20 cells obtained from a patient can be transfected *ex vivo* with an expression vector directing the expression of a peptide having B7-2-like activity alone, or in conjunction with a peptide having B7-1-like activity and/or B7-3-like activity. The transfected tumor cells are returned to the patient to result in expression of the peptides on the surface of the transfected cell. Alternatively, gene therapy techniques can be used to target a tumor cell for transfection  
25 *in vivo*.

The presence of the peptide of the present invention having the activity of a B lymphocyte antigen(s) on the surface of the tumor cell provides the necessary costimulation signal to T cells to induce a T cell mediated immune response against the transfected tumor cells. In addition, tumor cells which lack MHC class I or MHC class II molecules, or  
30 which fail to reexpress sufficient amounts of MHC class I or MHC class II molecules, can be transfected with nucleic acid encoding all or a portion of (*e.g.*, a cytoplasmic-domain truncated portion) of an MHC class I  $\alpha$  chain protein and  $\beta_2$  microglobulin protein or an MHC class II  $\alpha$  chain protein and an MHC class II  $\beta$  chain protein to thereby express MHC class I or MHC class II proteins on the cell surface. Expression of the appropriate class I

or class II MHC in conjunction with a peptide having the activity of a B lymphocyte antigen (e.g., B7-1, B7-2, B7-3) induces a T cell mediated immune response against the transfected tumor cell. Optionally, a gene encoding an antisense construct which blocks expression of an MHC class II associated protein, such as the invariant chain, can also be cotransfected  
5 with a DNA encoding a peptide having the activity of a B lymphocyte antigen to promote presentation of tumor associated antigens and induce tumor specific immunity. Thus, the induction of a T cell mediated immune response in a human subject may be sufficient to overcome tumor-specific tolerance in the subject.

The activity of a protein of the invention may, among other means, be measured  
10 by the following methods:

Suitable assays for thymocyte or splenocyte cytotoxicity include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-  
15 3.19; Chapter 7, Immunologic studies in Humans); Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa  
20 et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Bowman et al., J. Virology 61:1992-1998; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnoli et al., Cellular Immunology 133:327-341, 1991; Brown et al., J. Immunol. 153:3079-3092, 1994.

Assays for T-cell-dependent immunoglobulin responses and isotype switching  
25 (which will identify, among others, proteins that modulate T-cell dependent antibody responses and that affect Th1/Th2 profiles) include, without limitation, those described in: Maliszewski, J. Immunol. 144:3028-3033, 1990; and Assays for B cell function: *In vitro* antibody production, Mond, J.J. and Brunswick, M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.8.1-3.8.16, John Wiley and Sons, Toronto. 1994.

30 Mixed lymphocyte reaction (MLR) assays (which will identify, among others, proteins that generate predominantly Th1 and CTL responses) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-

3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., J. Immunol. 149:3778-3783, 1992.

Dendritic cell-dependent assays (which will identify, among others, proteins expressed by dendritic cells that activate naive T-cells) include, without limitation, those described in: Guery et al., J. Immunol. 134:536-544, 1995; Inaba et al., Journal of Experimental Medicine 173:549-559, 1991; Macatonia et al., Journal of Immunology 154:5071-5079, 1995; Porgador et al., Journal of Experimental Medicine 182:255-260, 1995; Nair et al., Journal of Virology 67:4062-4069, 1993; Huang et al., Science 264:961-965, 1994; Macatonia et al., Journal of Experimental Medicine 169:1255-1264, 1989; Bhardwaj et al., Journal of Clinical Investigation 94:797-807, 1994; and Inaba et al., Journal of Experimental Medicine 172:631-640, 1990.

Assays for lymphocyte survival/apoptosis (which will identify, among others, proteins that prevent apoptosis after superantigen induction and proteins that regulate lymphocyte homeostasis) include, without limitation, those described in: Darzynkiewicz et al., Cytometry 13:795-808, 1992; Gorczyca et al., Leukemia 7:659-670, 1993; Gorczyca et al., Cancer Research 53:1945-1951, 1993; Itoh et al., Cell 66:233-243, 1991; Zacharchuk, Journal of Immunology 145:4037-4045, 1990; Zamai et al., Cytometry 14:891-897, 1993; Gorczyca et al., International Journal of Oncology 1:639-648, 1992.

Assays for proteins that influence early steps of T-cell commitment and development include, without limitation, those described in: Antica et al., Blood 84:111-117, 1994; Fine et al., Cellular Immunology 155:111-122, 1994; Galy et al., Blood 85:2770-2778, 1995; Toki et al., Proc. Nat. Acad Sci. USA 88:7548-7551, 1991.

#### Hematopoiesis Regulating Activity

A protein of the present invention may be useful in regulation of hematopoiesis and, consequently, in the treatment of myeloid or lymphoid cell deficiencies. Even marginal biological activity in support of colony forming cells or of factor-dependent cell lines indicates involvement in regulating hematopoiesis, e.g. in supporting the growth and proliferation of erythroid progenitor cells alone or in combination with other cytokines, thereby indicating utility, for example, in treating various anemias or for use in conjunction with irradiation/chemotherapy to stimulate the production of erythroid precursors and/or erythroid cells; in supporting the growth and proliferation of myeloid cells such as granulocytes and monocytes/macrophages (i.e., traditional CSF activity) useful, for

example, in conjunction with chemotherapy to prevent or treat consequent myelo-suppression; in supporting the growth and proliferation of megakaryocytes and consequently of platelets thereby allowing prevention or treatment of various platelet disorders such as thrombocytopenia, and generally for use in place of or complimentary to platelet  
5 transfusions; and/or in supporting the growth and proliferation of hematopoietic stem cells which are capable of maturing to any and all of the above-mentioned hematopoietic cells and therefore find therapeutic utility in various stem cell disorders (such as those usually treated with transplantation, including, without limitation, aplastic anemia and paroxysmal nocturnal hemoglobinuria), as well as in repopulating the stem cell compartment post  
10 irradiation/chemotherapy, either *in-vivo* or *ex-vivo* (i.e., in conjunction with bone marrow transplantation or with peripheral progenitor cell transplantation (homologous or heterologous)) as normal cells or genetically manipulated for gene therapy.

The activity of a protein of the invention may, among other means, be measured by the following methods:

15       Suitable assays for proliferation and differentiation of various hematopoietic lines are cited above.

Assays for embryonic stem cell differentiation (which will identify, among others, proteins that influence embryonic differentiation hematopoiesis) include, without limitation, those described in: Johansson et al. *Cellular Biology* 15:141-151, 1995; Keller et al.,  
20 *Molecular and Cellular Biology* 13:473-486, 1993; McClanahan et al., *Blood* 81:2903-2915, 1993.

Assays for stem cell survival and differentiation (which will identify, among others, proteins that regulate lympho-hematopoiesis) include, without limitation, those described in: Methylcellulose colony forming assays, Freshney, M.G. In *Culture of Hematopoietic*  
25 *Cells*. R.I. Freshney, et al. eds. Vol pp. 265-268, Wiley-Liss, Inc., New York, NY. 1994; Hirayama et al., *Proc. Natl. Acad. Sci. USA* 89:5907-5911, 1992; Primitive hematopoietic colony forming cells with high proliferative potential, McNiece, I.K. and Briddell, R.A. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 23-39, Wiley-Liss, Inc., New York, NY. 1994; Neben et al., *Experimental Hematology* 22:353-359, 1994;  
30 Cobblestone area forming cell assay, Ploemacher, R.E. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 1-21, Wiley-Liss, Inc., New York, NY. 1994; Long term bone marrow cultures in the presence of stromal cells, Spooncer, E., Dexter, M. and Allen, T. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 163-179, Wiley-Liss, Inc., New York, NY. 1994; Long term culture initiating cell assay, Sutherland,

H.J. In *Culture of Hematopoietic Cells*. R.I. Freshney, *et al.* eds. Vol pp. 139-162, Wiley-Liss, Inc., New York, NY. 1994.

#### Tissue Growth Activity

5 A protein of the present invention also may have utility in compositions used for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, as well as for wound healing and tissue repair and replacement, and in the treatment of burns, incisions and ulcers.

A protein of the present invention, which induces cartilage and/or bone growth in  
10 circumstances where bone is not normally formed, has application in the healing of bone fractures and cartilage damage or defects in humans and other animals. Such a preparation employing a protein of the invention may have prophylactic use in closed as well as open fracture reduction and also in the improved fixation of artificial joints. *De novo* bone  
15 formation induced by an osteogenic agent contributes to the repair of congenital, trauma induced, or oncologic resection induced craniofacial defects, and also is useful in cosmetic plastic surgery.

A protein of this invention may also be used in the treatment of periodontal disease, and in other tooth repair processes. Such agents may provide an environment to attract  
20 bone-forming cells, stimulate growth of bone-forming cells or induce differentiation of progenitors of bone-forming cells. A protein of the invention may also be useful in the treatment of osteoporosis or osteoarthritis, such as through stimulation of bone and/or cartilage repair or by blocking inflammation or processes of tissue destruction (collagenase activity, osteoclast activity, etc.) mediated by inflammatory processes.

Another category of tissue regeneration activity that may be attributable to the  
25 protein of the present invention is tendon/ligament formation. A protein of the present invention, which induces tendon/ligament-like tissue or other tissue formation in circumstances where such tissue is not normally formed, has application in the healing of tendon or ligament tears, deformities and other tendon or ligament defects in humans and other animals. Such a preparation employing a tendon/ligament-like tissue inducing protein  
30 may have prophylactic use in preventing damage to tendon or ligament tissue, as well as use in the improved fixation of tendon or ligament to bone or other tissues, and in repairing defects to tendon or ligament tissue. *De novo* tendon/ligament-like tissue formation induced by a composition of the present invention contributes to the repair of congenital, trauma induced, or other tendon or ligament defects of other origin, and is also useful in cosmetic

plastic surgery for attachment or repair of tendons or ligaments. The compositions of the present invention may provide an environment to attract tendon- or ligament-forming cells, stimulate growth of tendon- or ligament-forming cells, induce differentiation of progenitors of tendon- or ligament-forming cells, or induce growth of tendon/ligament cells or  
5 progenitors *ex vivo* for return *in vivo* to effect tissue repair. The compositions of the invention may also be useful in the treatment of tendinitis, carpal tunnel syndrome and other tendon or ligament defects. The compositions may also include an appropriate matrix and/or sequestering agent as a carrier as is well known in the art.

The protein of the present invention may also be useful for proliferation of neural  
10 cells and for regeneration of nerve and brain tissue, *i.e.* for the treatment of central and peripheral nervous system diseases and neuropathies, as well as mechanical and traumatic disorders, which involve degeneration, death or trauma to neural cells or nerve tissue. More specifically, a protein may be used in the treatment of diseases of the peripheral nervous system, such as peripheral nerve injuries, peripheral neuropathy and localized  
15 neuropathies, and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. Further conditions which may be treated in accordance with the present invention include mechanical and traumatic disorders, such as spinal cord disorders, head trauma and cerebrovascular diseases such as stroke. Peripheral neuropathies resulting from  
20 chemotherapy or other medical therapies may also be treatable using a protein of the invention.

Proteins of the invention may also be useful to promote better or faster closure of non-healing wounds, including without limitation pressure ulcers, ulcers associated with vascular insufficiency, surgical and traumatic wounds, and the like.

25 It is expected that a protein of the present invention may also exhibit activity for generation or regeneration of other tissues, such as organs (including, for example, pancreas, liver, intestine, kidney, skin, endothelium), muscle (smooth, skeletal or cardiac) and vascular (including vascular endothelium) tissue, or for promoting the growth of cells comprising such tissues. Part of the desired effects may be by inhibition or modulation of  
30 fibrotic scarring to allow normal tissue to regenerate. A protein of the invention may also exhibit angiogenic activity.

A protein of the present invention may also be useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage.

A protein of the present invention may also be useful for promoting or inhibiting differentiation of tissues described above from precursor tissues or cells; or for inhibiting the growth of tissues described above.

The activity of a protein of the invention may, among other means, be measured  
5 by the following methods:

Assays for tissue generation activity include, without limitation, those described in: International Patent Publication No. WO95/16035 (bone, cartilage, tendon); International Patent Publication No. WO95/05846 (nerve, neuronal); International Patent Publication No. WO91/07491 (skin, endothelium ).

10 Assays for wound healing activity include, without limitation, those described in: Winter, Epidermal Wound Healing, pps. 71-112 (Maibach, HI and Rovee, DT, eds.), Year Book Medical Publishers, Inc., Chicago, as modified by Eaglstein and Mertz, J. Invest. Dermatol 71:382-84 (1978).

15 Activin/Inhibin Activity

A protein of the present invention may also exhibit activin- or inhibin-related activities. Inhibins are characterized by their ability to inhibit the release of follicle stimulating hormone (FSH), while activins are characterized by their ability to stimulate the release of follicle stimulating hormone (FSH). Thus, a protein of the present invention,  
20 alone or in heterodimers with a member of the inhibin  $\alpha$  family, may be useful as a contraceptive based on the ability of inhibins to decrease fertility in female mammals and decrease spermatogenesis in male mammals. Administration of sufficient amounts of other inhibins can induce infertility in these mammals. Alternatively, the protein of the invention, as a homodimer or as a heterodimer with other protein subunits of the inhibin- $\beta$  group, may  
25 be useful as a fertility inducing therapeutic, based upon the ability of activin molecules in stimulating FSH release from cells of the anterior pituitary. See, for example, United States Patent 4,798,885. A protein of the invention may also be useful for advancement of the onset of fertility in sexually immature mammals, so as to increase the lifetime reproductive performance of domestic animals such as cows, sheep and pigs.

30 The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for activin/inhibin activity include, without limitation, those described in: Vale et al., Endocrinology 91:562-572, 1972; Ling et al., Nature 321:779-782, 1986; Vale

et al., Nature 321:776-779, 1986; Mason et al., Nature 318:659-663, 1985; Forage et al., Proc. Natl. Acad. Sci. USA 83:3091-3095, 1986.

#### Chemotactic/Chemokinetic Activity

5           A protein of the present invention may have chemotactic or chemokinetic activity (e.g., act as a chemokine) for mammalian cells, including, for example, monocytes, fibroblasts, neutrophils, T-cells, mast cells, eosinophils, epithelial and/or endothelial cells. Chemotactic and chemokinetic proteins can be used to mobilize or attract a desired cell population to a desired site of action. Chemotactic or chemokinetic proteins provide  
10   particular advantages in treatment of wounds and other trauma to tissues, as well as in treatment of localized infections. For example, attraction of lymphocytes, monocytes or neutrophils to tumors or sites of infection may result in improved immune responses against the tumor or infecting agent.

          A protein or peptide has chemotactic activity for a particular cell population if it can  
15   stimulate, directly or indirectly, the directed orientation or movement of such cell population. Preferably, the protein or peptide has the ability to directly stimulate directed movement of cells. Whether a particular protein has chemotactic activity for a population of cells can be readily determined by employing such protein or peptide in any known assay for cell chemotaxis.

20           The activity of a protein of the invention may, among other means, be measured by the following methods:

          Assays for chemotactic activity (which will identify proteins that induce or prevent chemotaxis) consist of assays that measure the ability of a protein to induce the migration of cells across a membrane as well as the ability of a protein to induce the adhesion of one  
25   cell population to another cell population. Suitable assays for movement and adhesion include, without limitation, those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W. Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 6.12, Measurement of alpha and beta Chemokines 6.12.1-6.12.28; Taub et al. J. Clin. Invest. 95:1370-1376, 1995; Lind et  
30   al. APMIS 103:140-146, 1995; Muller et al Eur. J. Immunol. 25: 1744-1748; Gruber et al. J. of Immunol. 152:5860-5867, 1994; Johnston et al. J. of Immunol. 153: 1762-1768, 1994.

#### Hemostatic and Thrombolytic Activity



A protein of the invention may also exhibit hemostatic or thrombolytic activity. As a result, such a protein is expected to be useful in treatment of various coagulation disorders (including hereditary disorders, such as hemophilias) or to enhance coagulation and other hemostatic events in treating wounds resulting from trauma, surgery or other causes. A  
5 protein of the invention may also be useful for dissolving or inhibiting formation of thromboses and for treatment and prevention of conditions resulting therefrom (such as, for example, infarction of cardiac and central nervous system vessels (e.g., stroke).

The activity of a protein of the invention may, among other means, be measured by the following methods:

10        Assay for hemostatic and thrombolytic activity include, without limitation, those described in: Linet et al., J. Clin. Pharmacol. 26:131-140, 1986; Burdick et al., Thrombosis Res. 45:413-419, 1987; Humphrey et al., Fibrinolysis 5:71-79 (1991); Schaub, Prostaglandins 35:467-474, 1988.

15        Receptor/Ligand Activity

A protein of the present invention may also demonstrate activity as receptors, receptor ligands or inhibitors or agonists of receptor/ligand interactions. Examples of such receptors and ligands include, without limitation, cytokine receptors and their ligands, receptor kinases and their ligands, receptor phosphatases and their ligands, receptors  
20 involved in cell-cell interactions and their ligands (including without limitation, cellular adhesion molecules (such as selectins, integrins and their ligands) and receptor/ligand pairs involved in antigen presentation, antigen recognition and development of cellular and humoral immune responses). Receptors and ligands are also useful for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction.  
25 A protein of the present invention (including, without limitation, fragments of receptors and ligands) may themselves be useful as inhibitors of receptor/ligand interactions.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for receptor-ligand activity include without limitation those  
30 described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W. Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 7.28, Measurement of Cellular Adhesion under static conditions 7.28.1-7.28.22), Takai et al., Proc. Natl. Acad. Sci. USA 84:6864-6868, 1987; Bierer et al., J. Exp. Med. 168:1145-1156, 1988; Rosenstein et al., J. Exp. Med.

169:149-160 1989; Stoltenborg et al., J. Immunol. Methods 175:59-68, 1994; Stitt et al., Cell 80:661-670, 1995.

#### Anti-Inflammatory Activity

5 Proteins of the present invention may also exhibit anti-inflammatory activity. The anti-inflammatory activity may be achieved by providing a stimulus to cells involved in the inflammatory response, by inhibiting or promoting cell-cell interactions (such as, for example, cell adhesion), by inhibiting or promoting chemotaxis of cells involved in the inflammatory process, inhibiting or promoting cell extravasation, or by stimulating or  
10 suppressing production of other factors which more directly inhibit or promote an inflammatory response. Proteins exhibiting such activities can be used to treat inflammatory conditions including chronic or acute conditions), including without limitation inflammation associated with infection (such as septic shock, sepsis or systemic inflammatory response syndrome (SIRS)), ischemia-reperfusion injury, endotoxin lethality,  
15 arthritis, complement-mediated hyperacute rejection, nephritis, cytokine or chemokine-induced lung injury, inflammatory bowel disease, Crohn's disease or resulting from over production of cytokines such as TNF or IL-1. Proteins of the invention may also be useful to treat anaphylaxis and hypersensitivity to an antigenic substance or material.

#### Tumor Inhibition Activity

20 In addition to the activities described above for immunological treatment or prevention of tumors, a protein of the invention may exhibit other anti-tumor activities. A protein may inhibit tumor growth directly or indirectly (such as, for example, via ADCC). A protein may exhibit its tumor inhibitory activity by acting on tumor tissue or tumor  
25 precursor tissue, by inhibiting formation of tissues necessary to support tumor growth (such as, for example, by inhibiting angiogenesis), by causing production of other factors, agents or cell types which inhibit tumor growth, or by suppressing, eliminating or inhibiting factors, agents or cell types which promote tumor growth.

30

#### Other Activities

A protein of the invention may also exhibit one or more of the following additional activities or effects: inhibiting the growth, infection or function of, or killing, infectious agents, including, without limitation, bacteria, viruses, fungi and other parasites; effecting

- (suppressing or enhancing) bodily characteristics, including, without limitation, height, weight, hair color, eye color, skin, fat to lean ratio or other tissue pigmentation, or organ or body part size or shape (such as, for example, breast augmentation or diminution, change in bone form or shape); effecting biorhythms or circadian cycles or rhythms; effecting the
- 5 fertility of male or female subjects; effecting the metabolism, catabolism, anabolism, processing, utilization, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent
- 10 behaviors; providing analgesic effects or other pain reducing effects; promoting differentiation and growth of embryonic stem cells in lineages other than hematopoietic lineages; hormonal or endocrine activity; in the case of enzymes, correcting deficiencies of the enzyme and treating deficiency-related diseases; treatment of hyperproliferative disorders (such as, for example, psoriasis); immunoglobulin-like activity (such as, for
- 15 example, the ability to bind antigens or complement); and the ability to act as an antigen in a vaccine composition to raise an immune response against such protein or another material or entity which is cross-reactive with such protein.

20

### **ADMINISTRATION AND DOSING**

A protein of the present invention (from whatever source derived, including without limitation from recombinant and non-recombinant sources) may be used in a pharmaceutical composition when combined with a pharmaceutically acceptable carrier. Such a composition may also contain (in addition to protein and a carrier) diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials well known in the art. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredient(s). The characteristics of the carrier will depend on the route of administration. The pharmaceutical composition of the invention may also contain cytokines, lymphokines, or other hematopoietic factors such as M-CSF, GM-CSF, TNF, IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-14, IL-15, IFN, TNF0, TNF1, TNF2, G-CSF, Meg-CSF, thrombopoietin, stem cell factor, and erythropoietin. The pharmaceutical composition may further contain other agents which either enhance the activity of the protein or complement its activity or use in treatment. Such additional factors and/or agents may be included in the pharmaceutical composition to produce a synergistic effect with protein of the invention, or to minimize side effects. Conversely, protein of the present invention may be included in formulations of the particular cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent to minimize side effects of the cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent.

A protein of the present invention may be active in multimers (e.g., heterodimers or homodimers) or complexes with itself or other proteins. As a result, pharmaceutical compositions of the invention may comprise a protein of the invention in such multimeric or complexed form.

The pharmaceutical composition of the invention may be in the form of a complex of the protein(s) of present invention along with protein or peptide antigens. The protein and/or peptide antigen will deliver a stimulatory signal to both B and T lymphocytes. B lymphocytes will respond to antigen through their surface immunoglobulin receptor. T lymphocytes will respond to antigen through the T cell receptor (TCR) following presentation of the antigen by MHC proteins. MHC and structurally related proteins including those encoded by class I and class II MHC genes on host cells will serve to present the peptide antigen(s) to T lymphocytes. The antigen components could also be supplied as purified MHC-peptide complexes alone or with co-stimulatory molecules that

can directly signal T cells. Alternatively antibodies able to bind surface immunoglobulin and other molecules on B cells as well as antibodies able to bind the TCR and other molecules on T cells can be combined with the pharmaceutical composition of the invention.

5           The pharmaceutical composition of the invention may be in the form of a liposome in which protein of the present invention is combined, in addition to other pharmaceutically acceptable carriers, with amphipathic agents such as lipids which exist in aggregated form as micelles, insoluble monolayers, liquid crystals, or lamellar layers in aqueous solution. Suitable lipids for liposomal formulation include, without limitation, monoglycerides, diglycerides, sulfatides, lysolecithin, phospholipids, saponin, bile acids, and the like. Preparation of such liposomal formulations is within the level of skill in the art, as disclosed, for example, in U.S. Patent No. 4,235,871; U.S. Patent No. 4,501,728; U.S. Patent No. 4,837,028; and U.S. Patent No. 4,737,323, all of which are incorporated herein by reference.

15           As used herein, the term "therapeutically effective amount" means the total amount of each active component of the pharmaceutical composition or method that is sufficient to show a meaningful patient benefit, i.e., treatment, healing, prevention or amelioration of the relevant medical condition, or an increase in rate of treatment, healing, prevention or amelioration of such conditions. When applied to an individual active ingredient, administered alone, the term refers to that ingredient alone. When applied to a combination, the term refers to combined amounts of the active ingredients that result in the therapeutic effect, whether administered in combination, serially or simultaneously.

In practicing the method of treatment or use of the present invention, a therapeutically effective amount of protein of the present invention is administered to a mammal having a condition to be treated. Protein of the present invention may be administered in accordance with the method of the invention either alone or in combination with other therapies such as treatments employing cytokines, lymphokines or other hematopoietic factors. When co-administered with one or more cytokines, lymphokines or other hematopoietic factors, protein of the present invention may be administered either simultaneously with the cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors, or sequentially. If administered sequentially, the attending physician will decide on the appropriate sequence of administering protein of the present invention in combination with cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors.

Administration of protein of the present invention used in the pharmaceutical composition or to practice the method of the present invention can be carried out in a variety of conventional ways, such as oral ingestion, inhalation, topical application or cutaneous, subcutaneous, intraperitoneal, parenteral or intravenous injection. Intravenous  
5 administration to the patient is preferred.

When a therapeutically effective amount of protein of the present invention is administered orally, protein of the present invention will be in the form of a tablet, capsule, powder, solution or elixir. When administered in tablet form, the pharmaceutical composition of the invention may additionally contain a solid carrier such as a gelatin or an  
10 adjuvant. The tablet, capsule, and powder contain from about 5 to 95% protein of the present invention, and preferably from about 25 to 90% protein of the present invention. When administered in liquid form, a liquid carrier such as water, petroleum, oils of animal or plant origin such as peanut oil, mineral oil, soybean oil, or sesame oil, or synthetic oils may be added. The liquid form of the pharmaceutical composition may further contain  
15 physiological saline solution, dextrose or other saccharide solution, or glycols such as ethylene glycol, propylene glycol or polyethylene glycol. When administered in liquid form, the pharmaceutical composition contains from about 0.5 to 90% by weight of protein of the present invention, and preferably from about 1 to 50% protein of the present invention.

20 When a therapeutically effective amount of protein of the present invention is administered by intravenous, cutaneous or subcutaneous injection, protein of the present invention will be in the form of a pyrogen-free, parenterally acceptable aqueous solution. The preparation of such parenterally acceptable protein solutions, having due regard to pH, isotonicity, stability, and the like, is within the skill in the art. A preferred pharmaceutical  
25 composition for intravenous, cutaneous, or subcutaneous injection should contain, in addition to protein of the present invention, an isotonic vehicle such as Sodium Chloride Injection, Ringer's Injection, Dextrose Injection, Dextrose and Sodium Chloride Injection, Lactated Ringer's Injection, or other vehicle as known in the art. The pharmaceutical composition of the present invention may also contain stabilizers, preservatives, buffers,  
30 antioxidants, or other additives known to those of skill in the art.

The amount of protein of the present invention in the pharmaceutical composition of the present invention will depend upon the nature and severity of the condition being treated, and on the nature of prior treatments which the patient has undergone. Ultimately, the attending physician will decide the amount of protein of the present invention with

which to treat each individual patient. Initially, the attending physician will administer low doses of protein of the present invention and observe the patient's response. Larger doses of protein of the present invention may be administered until the optimal therapeutic effect is obtained for the patient, and at that point the dosage is not increased further. It is contemplated that the various pharmaceutical compositions used to practice the method of the present invention should contain about 0.01  $\mu$ g to about 100 mg (preferably about 0.1 mg to about 10 mg, more preferably about 0.1  $\mu$ g to about 1 mg) of protein of the present invention per kg body weight.

The duration of intravenous therapy using the pharmaceutical composition of the present invention will vary, depending on the severity of the disease being treated and the condition and potential idiosyncratic response of each individual patient. It is contemplated that the duration of each application of the protein of the present invention will be in the range of 12 to 24 hours of continuous intravenous administration. Ultimately the attending physician will decide on the appropriate duration of intravenous therapy using the pharmaceutical composition of the present invention.

Protein of the invention may also be used to immunize animals to obtain polyclonal and monoclonal antibodies which specifically react with the protein. Such antibodies may be obtained using either the entire protein or fragments thereof as an immunogen. The peptide immunogens additionally may contain a cysteine residue at the carboxyl terminus, and are conjugated to a hapten such as keyhole limpet hemocyanin (KLH). Methods for synthesizing such peptides are known in the art, for example, as in R.P. Merrifield, J. Amer.Chem.Soc. 85, 2149-2154 (1963); J.L. Krstenansky, *et al.*, FEBS Lett. 211, 10 (1987). Monoclonal antibodies binding to the protein of the invention may be useful diagnostic agents for the immunodetection of the protein. Neutralizing monoclonal antibodies binding to the protein may also be useful therapeutics for both conditions associated with the protein and also in the treatment of some forms of cancer where abnormal expression of the protein is involved. In the case of cancerous cells or leukemic cells, neutralizing monoclonal antibodies against the protein may be useful in detecting and preventing the metastatic spread of the cancerous cells, which may be mediated by the protein.

For compositions of the present invention which are useful for bone, cartilage, tendon or ligament regeneration, the therapeutic method includes administering the composition topically, systematically, or locally as an implant or device. When administered, the therapeutic composition for use in this invention is, of course, in a

pyrogen-free, physiologically acceptable form. Further, the composition may desirably be encapsulated or injected in a viscous form for delivery to the site of bone, cartilage or tissue damage. Topical administration may be suitable for wound healing and tissue repair. Therapeutically useful agents other than a protein of the invention which may also  
5 optionally be included in the composition as described above, may alternatively or additionally, be administered simultaneously or sequentially with the composition in the methods of the invention. Preferably for bone and/or cartilage formation, the composition would include a matrix capable of delivering the protein-containing composition to the site of bone and/or cartilage damage, providing a structure for the developing bone and  
10 cartilage and optimally capable of being resorbed into the body. Such matrices may be formed of materials presently in use for other implanted medical applications.

The choice of matrix material is based on biocompatibility, biodegradability, mechanical properties, cosmetic appearance and interface properties. The particular application of the compositions will define the appropriate formulation. Potential matrices  
15 for the compositions may be biodegradable and chemically defined calcium sulfate, tricalciumphosphate, hydroxyapatite, polylactic acid, polyglycolic acid and polyanhydrides. Other potential materials are biodegradable and biologically well-defined, such as bone or dermal collagen. Further matrices are comprised of pure proteins or extracellular matrix components. Other potential matrices are nonbiodegradable and chemically defined, such  
20 as sintered hydroxapatite, bioglass, aluminates, or other ceramics. Matrices may be comprised of combinations of any of the above mentioned types of material, such as polylactic acid and hydroxyapatite or collagen and tricalciumphosphate. The bioceramics may be altered in composition, such as in calcium-aluminate-phosphate and processing to alter pore size, particle size, particle shape, and biodegradability.

25 Presently preferred is a 50:50 (mole weight) copolymer of lactic acid and glycolic acid in the form of porous particles having diameters ranging from 150 to 800 microns. In some applications, it will be useful to utilize a sequestering agent, such as carboxymethyl cellulose or autologous blood clot, to prevent the protein compositions from disassociating from the matrix.

30 A preferred family of sequestering agents is cellulosic materials such as alkylcelluloses (including hydroxyalkylcelluloses), including methylcellulose, ethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropyl-methylcellulose, and carboxymethylcellulose, the most preferred being cationic salts of carboxymethylcellulose (CMC). Other preferred sequestering agents include hyaluronic acid, sodium alginate,



poly(ethylene glycol), polyoxyethylene oxide, carboxyvinyl polymer and poly(vinyl alcohol). The amount of sequestering agent useful herein is 0.5-20 wt%, preferably 1-10 wt% based on total formulation weight, which represents the amount necessary to prevent desorption of the protein from the polymer matrix and to provide appropriate handling of the composition, yet not so much that the progenitor cells are prevented from infiltrating the matrix, thereby providing the protein the opportunity to assist the osteogenic activity of the progenitor cells.

In further compositions, proteins of the invention may be combined with other agents beneficial to the treatment of the bone and/or cartilage defect, wound, or tissue in question. These agents include various growth factors such as epidermal growth factor (EGF), platelet derived growth factor (PDGF), transforming growth factors (TGF- $\alpha$  and TGF- $\beta$ ), and insulin-like growth factor (IGF).

The therapeutic compositions are also presently valuable for veterinary applications. Particularly domestic animals and thoroughbred horses, in addition to humans, are desired patients for such treatment with proteins of the present invention.

The dosage regimen of a protein-containing pharmaceutical composition to be used in tissue regeneration will be determined by the attending physician considering various factors which modify the action of the proteins, e.g., amount of tissue weight desired to be formed, the site of damage, the condition of the damaged tissue, the size of a wound, type of damaged tissue (e.g., bone), the patient's age, sex, and diet, the severity of any infection, time of administration and other clinical factors. The dosage may vary with the type of matrix used in the reconstitution and with inclusion of other proteins in the pharmaceutical composition. For example, the addition of other known growth factors, such as IGF I (insulin like growth factor I), to the final composition, may also effect the dosage. Progress can be monitored by periodic assessment of tissue/bone growth and/or repair, for example, X-rays, histomorphometric determinations and tetracycline labeling.

Polynucleotides of the present invention can also be used for gene therapy. Such polynucleotides can be introduced either *in vivo* or *ex vivo* into cells for expression in a mammalian subject. Polynucleotides of the invention may also be administered by other known methods for introduction of nucleic acid into a cell or organism (including, without limitation, in the form of viral vectors or naked DNA).

Cells may also be cultured *ex vivo* in the presence of proteins of the present invention in order to proliferate or to produce a desired effect on or activity in such cells. Treated cells can then be introduced *in vivo* for therapeutic purposes.

Patent and literature references cited herein are incorporated by reference as if fully set forth.

Table 3

Sel.	Species	Tissue	Cell Type
AA	Human	Kidney	19-23wks., M/F pool of 5
AB	Human	Fetal Lung	Fetal Lung
AC	Human	Placenta	26yrs., 1 specimen
AD	Murine	Embryo	Fetal ES cells
AE	Murine	Spleen	Adult spleen
AF	Murine	Fetal Brain	Fetal Brain
AG	Murine	Fetal Brain	Fetal Brain
AH	Murine	Fetal Thymus	Fetal Thymus
AI	Human	Blood	Adult PBMC/TH1or2
AJ	Human	Testes	10-61yrs., pool of 11
AK	Human	Kidney	19-23wks., M/F pool of 5
AL	Human	Neural	Adult Glioblastoma line TG-1
AM	Human	Kidney	19-23wks., M/F pool of 5
AN	Murine	Bone Marrow	Adult Stromal cell line FCM-4
AO	Murine	Thymus	Adult Subtr. Adult Thymus
AP	Human	Placenta	26yrs., 1 specimen
AQ	Human	Ovary	PA-1 Teratocarcinoma
AR	Human	Retina	16-75yrs., pool of 76
AS	Human	Brain	19-23wks., M/F pool of 5
AT	Human	Blood	Adult lymphocytes+dend. cells
AU	Human	Testes	10-61yrs., pool of 11
AV	Murine	Spleen	Adult spleen
AW	Human	Ovary	PA-1 Teratocarcinoma
AX	Human	Testes	10-61yrs., pool of 11
AY	Human	Retina	16-75yrs., pool of 76
AZ	Human	Colon	Caco-2 Adenocarcinoma
B	Human	Blood	PeripheralBloodMononuclearCell
BA	Human	Placenta	26yrs., 1 specimen
BB	Human	Blood	Adult PBMC/TH1or2
BC	Murine	Embryo	Fetal ES cells
BD	Human	Kidney	19-23wks., M/F pool of 5
BE	Human	Blood	Adult PBMC/TH1or2
BF	Human	Brain	19-23wks., M/F pool of 5
BG	Human	Brain	N/A
BH	Human	Ovary	PA-1 Teratocarcinoma
BI	Human	Kidney	19-23wks., M/F pool of 5
BJ	Human	Ovary	PA-1 Teratocarcinoma
BK	Human	Retina	16-75yrs., pool of 76
BL	Human	Testes	10-61yrs., pool of 11
BM	Human	Muscle	N/A
BN	Human	Placenta	26yrs., 1 specimen
BO	Human	Retina	16-75yrs., pool of 76
BP	Human	Kidney	19-23wks., M/F pool of 5
BQ	Human	Colon	Caco-2 Adenocarcinoma Caco2

BR	Human	Kidney	19-23wks., M/F pool of 5
BS	Human	Pituitary	Adult Pituitary
BT	Human	Blood	Adult PBMC
BU	Human	Placenta	26yrs., 1 specimen
BV	Human	Brain	N/A
BW	Human	Blood	Adult PBMC
BX	Human	Ovary	PA-1 Teratocarcinoma
BY	Human	Blood	Adult PBMC/TH1 or 2
BZ	Human	Kidney	19-23wks., M/F pool of 5
C	Human	Blood	PeripheralBloodMononuclearCell
CA	Murine	Embryo	Fetal ES cell embryoid bodies
CB	Human	Brain	19-23wks., M/F pool of 5
CC	Human	Brain	N/A
CD	Human	Brain	19-23wks., M/F pool of 5
CE	Human	Blood	Adult lymphocytes+dend. cells
CF	Human	Placenta	26yrs., 1 specimen
CG	Human	Testes	10-61yrs., pool of 11
CH	Human	Kidney	19-23wks., M/F pool of 5
CI	Human	Brain	N/A
CJ	Human	Brain	19-23wks., M/F pool of 5
CK	Human	Testes	10-61yrs., pool of 11
CL	Human	Retina	16-75yrs., pool of 76
CM	Human	Adult Lung	Adult Lung
CN	Human	Brain	19-23wks., M/F pool of 5
CO	Human	Brain	N/A
CP	Human	SalivaryGland	N/A
CQ	Human	Heart	13-73yrs., pool of 3
CR	Human	Testes	10-61yrs., pool of 11
CS	Human	Brain	19-23wks., M/F pool of 5
CT	Human	Brain	N/A
CU	Human	Pineal Gland	N/A
CV	Human	Mammary	Adult Human Mammary
CW	Human	Brain	19-23wks., M/F pool of 5
CY	Human	Pineal Gland	N/A
CZ	Human	Testes	10-61yrs., pool of 11
D	Human	Blood	PeripheralBloodMononuclearCell
DA	Human	Placenta	26yrs., 1 specimen
DB	Human	Prostate	Adult Prostate
DC	Human	Pineal Gland	Adult Pineal Gland
DD	Human	Testes	10-61yrs., pool of 11
DE	Human	Testes	Adult NCCIT TeratoCA
DF	Human	Brain	N/A
DG	Human	Placenta	26yrs., 1 specimen
DH	Human	Brain	19-23wks., M/F pool of 5
DI	Human	Testes	10-61yrs., pool of 11
DJ	Human	Placenta	26yrs., 1 specimen
DK	Human	Fetal Kidney2	Fetal Kidney

DL	Human	Brain	N/A
DM	Human	Brain	N/A
DN	Human	Brain	19-23wks., M/F pool of 5
DO	Human	Testes	10-61yrs., pool of 11
DP	Murine	Embryo	Fetal ES cell embryoid bodies
DQ	Human	Placenta	26yrs., 1 specimen
DR	Human	SalivaryGland	N/A
DT	Human	Brain	N/A
DU	Human	Brain	19-23wks., M/F pool of 5
DV	Human	Pineal Gland	Adult Pineal Gland
DW	Human	Brain	N/A
DX	Human	Testes	10-61yrs., pool of 11
DY	Human	Brain	N/A
DZ	Human	Testes	Adult NCCIT TeratoCA
E	Human	Blood	PeripheralBloodMononuclearCell
EA	Human	Brain	19-23wks., M/F pool of 5
EB	Human	Melanoma	Adult Melanoma
EC	Human	Brain	N/A
ED	Human	Placenta	26yrs., 1 specimen
EE	Human	Testes	10-61yrs., pool of 11
EF	Human	Liver	Adult Liver
EG	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
EH	Human	Blood	PeripheralBloodMononuclearCell
EI	Human	Brain	19-23wks., M/F pool of 5
EJ	Human	Placenta	26yrs., 1 specimen
EK	Human	Brain	19-23wks., M/F pool of 5
EL	Human	Testes	10-61yrs., pool of 11
EM	Human	Fetal Kidney2	Fetal Kidney
EN	Human	Brain	19-23wks., M/F pool of 5
EO	Human	Adrenal Gland	Adult Adrenal Gland
EP	Human	Placenta	26yrs., 1 specimen
EQ	Human	Testes	10-61yrs., pool of 11
ER	Human	Brain	19-23wks., M/F pool of 5
ES	Human	Placenta	26yrs., 1 specimen
ET	Human	Testes	10-61yrs., pool of 11
EU	Human	Kidney	Adult Kidney
EV	Human	Stomach	Adult Stomach
EW	Human	Placenta	26yrs., 1 specimen
EX	Human	Testes	10-61yrs., pool of 11
EY	Human	Brain	19-23wks., M/F pool of 5
EZ	Human	Fetal Kidney2	Fetal Kidney
FA	Human	Brain	19-23wks., M/F pool of 5
FB	Human	Placenta	26yrs., 1 specimen
FC	Human	Testes	10-61yrs., pool of 11
FD	Human	SalivaryGland	N/A
FE	Human	Brain	N/A
FF	Human	Testes	Adult NCCIT TeratoCA

FG	Human	Brain	N/A
FH	Human	Brain	19-23wks., M/F pool of 5
FI	Human	Small Intest	Adult Small Intestine
FJ	Human	Lung CA	Adult Lung CA
FK	Human	Kidney	Adult Kidney
FM	Human	Brain	N/A
FN	Human	Brain	19-23wks., M/F pool of 5
FO	Human	Brain	N/A
FP	Human	Placenta	26yrs., 1 specimen
FQ	Human	Testes	10-61yrs., pool of 11
FR	Human	Placenta	26yrs., 1 specimen
FS	Human	Testes	10-61yrs., pool of 11
FT	Chicken	Fetal Lung	Fetal Lung
FU	Chicken	Limb Bud	Fetal St. 23 Limb Bud
FV	Human	Testes	Adult NCCIT TeratoCA
FW	Human	Testes	Adult NCCIT TeratoCA
FX	Human	Brain	19-23wks., M/F pool of 5
FY	Human	Placenta	26yrs., 1 specimen
FZ	Human	Placenta	26yrs., 1 specimen
G	Human	Blood	PeripheralBloodMononuclearCell
GA	Human	Testes	10-61yrs., pool of 11
GB	Human	Placenta	26yrs., 1 specimen
GC	Human	Testes	10-61yrs., pool of 11
GD	Human	Placenta	26yrs., 1 specimen
GE	Human	Brain	N/A
GF	Human	Brain	19-23wks., M/F pool of 5
GG	Human	Fetal Kidney2	Fetal Kidney
GH	Human	Placenta	26yrs., 1 specimen
GI	Human	Retinoblastoma	Adult Retinoblastoma Y79
GJ	Murine	Spleen	Adult Spleen
GK	Human	Fetal Kidney2	Fetal Kidney
GL	Murine	Lymph Node	Adult Lymph Node
GM	Human	Uterus	N/A
GN	Human	Blood	PeripheralBloodMononuclearCell
GO	Human	Adrenal Gland	Adult Adrenal Gland
GP	Human	Ovary	PA-1 Teratocarcinoma
GQ	Human	Pineal Gland	N/A
GR	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
GS	Human	Retina	16-75yrs., pool of 76
GT	Human	Brain	N/A
GU	Human	Fetal Kidney2	Fetal Kidney
GV	Rat	Retina	Newborn Retina
GW	Chicken	Limb Bud	Fetal St.26 Limb Bud
GX	Human	Brain	N/A
GY	Human	Testes	10-61yrs., pool of 11
GZ	Human	Brain	19-23wks., M/F pool of 5
H	Human	Blood	PeripheralBloodMononuclearCell

HA	Human	Testes	Adult NCCIT TeratoCA
HB	Human	Fetal Kidney2	Fetal Kidney
HC	Human	Brain	19-23wks., M/F pool of 5
HD	Human	Brain	N/A
HE	Human	Testes	10-61yrs., pool of 11
HF	Human	Brain	19-23wks., M/F pool of 5
HG	Human	Fetal Kidney2	Fetal Kidney
HH	Human	Brain	N/A
HI	Human	Testes	10-61yrs., pool of 11
HJ	Human	Brain	N/A
HK	Human	Brain	19-23wks., M/F pool of 5
HL	Human	Fetal Kidney2	Fetal Kidney
HM	Human	Testes	Adult NCCIT TeratoCA
HN	Human	Fetal Kidney2	Fetal Kidney
HO	Human	Brain	N/A
HP	Human	Brain	19-23wks., M/F pool of 5
HQ	Human	Testes	10-61yrs., pool of 11
HR	Human	Brain	N/A
HS	Human	Brain	N/A
HT	Human	Brain	19-23wks., M/F pool of 5
HU	Human	Fetal Kidney2	Fetal Kidney
HV	Human	Testes	10-61yrs., pool of 11
HW	Human	Brain	N/A
HX	Human	Brain Hippoca	Adult Brain Hippocampus
HY	Human	Trachea	Adult Trachea
HZ	Human	Brain Thalamus	Adult Brain Thalamus
I	Human	Blood	PeripheralBloodMononuclearCell
IA	Human	Thyroid	Adult Thyroid
IB	Human	Embryonal CA	Fetal NT2-D1
IC	Human	WER1-Rb1 line	Adult Retinoblastoma
ID	Human	Muscle	N/A
IE	Human	Brain	19-23wks., M/F pool of 5
IF	Human	Uterus	N/A
IG	Human	Testes	10-61yrs., pool of 11
IH	Human	Muscle	N/A
II	Human	Brain	N/A
IJ	Human	Blood	PeripheralBloodMononuclearCell
IK	Human	Retinoblastoma	Adult Retinoblastoma Y79
IL	Human	Retina	16-75yrs., pool of 76
IM	Human	Various	Various
IN	Human	Prostate	Adult Prostate
IO	Human	Brain	19-23wks., M/F pool of 5
IP	Human	Fetal Kidney2	Fetal Kidney
IQ	Human	Prostate	Adult Prostate
IR	Human	Brain Hippoca	Adult Brain Hippocampus
IS	Human	Trachea	Adult Trachea
IT	Human	Brain Thalamu	Adult Brain Thalamus

## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Jacobs, Kenneth  
McCoy, John  
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Racie, Lisa  
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- (ii) TITLE OF INVENTION: SECRETED, EXPRESSED SEQUENCE TAGS
- (iii) NUMBER OF SEQUENCES: 1500
- (iv) CORRESPONDENCE ADDRESS
  - (A) ADDRESSE: Genetics Institute, Inc.
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  - (E) COUNTRY: U.S.A
  - (F) ZIP: 02140
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy Disk
  - (B) COMPUTER: IBM PC Compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
  - (C) CLASSIFICATION:
- (vii) ATTORNEY/AGENT INFORMATION:
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## (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 335 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

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GTCGACCCCA TCCCATCCAA TAGTCCCAT CTCTCTCAG CTCTCTCTGT AGTTTCTCTT    60
CCTCCGCTG CCTTTAAGT TAGTGTTC CAGGACAGAG GTGACTCAGT TGTATCCAGA    120
CCGCTCTGTG ACTGAACACC CACTTCTTT TCCTTTTCCA ATAAATATAT GTAACATACA    180
TGTCAACTAG GAACAAACA GTATCTCAGG AATCCACCAT CCAGTTAAAA ATGGACCCTT    240

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ACCCTTACCG TGCCCCTGCA GAGACCCCAA TACAGCGCAT TTCCCTCATT CTTTGTCTTT 306  
TCTCAAGTTT TACCACGGCC TCTTTGGCCC TCGAG 335

## (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 514 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GAATTCGGCC AAAGAGGCGG TTGACCATTG ATAGAACACA GGCATACACA GGAAGATACA 60  
 TTCACAGAAG AGCTTCCTGC ACAAAGTAAG CCACCAGCGC AACATGACAG TGAAGACCCT 120  
 GCATGGCCCA GCCATGGTCA AGTACTTGCT GCTGTCGATA TTGGGGCTTG CCTTTCTGAG 180  
 TGAGGCGGCA GCTCGGAAAA TCCCCAAAGT AGGACATACT TTTTCCAAA AGCCTGAGAG 240  
 TTGCCCCGCT GTGCCAGGAG GTAGTATGAA GCTTGACATT GGCATCATCA ATGAAAACCA 300  
 GCGCGTTTCC ATGTACAGTA ACATCGAGAG CCGCTCCACC TCCCCCTGGA ATTAACTGT 360  
 CACTTGGGAC CCCAACCGGT ACCCTCGGA AGTTGTACAG GCCCAGTGTA GGAACCTGGG 420  
 CTGCATCAAT GCTCAAGGAA AGGAAGACAT CTCCATGAAT TCCGTTCCCA TCCAGCAAGA 480  
 GACCCTGTCG ACGGCCTCTT TGGCCCTCGA GACA 514

## (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 393 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GTGACCCCTC CACCTGCAAA TCCACTGTCC ATACCCCTTG ATTGGTTGAA GAGCCTTTGG 60  
 TCATACTGAA CTTCAATTGA AGTCCGAGGA TTAGGAACAC CGAGAGCAAT AACTTCACTG 120  
 ATATCCCGAT TTTCAATTCT CTGAAGTTTC GACCTCTTAT CAGGAGCTGC CTGGGAAAGA 180  
 TTCCGGTCAT GCTGTCTCTC TTTTCGCTG TCATGCCGGA TTTCACTCCT CTCACGTGCC 240  
 TCCCATCCT CTTTTTCCAC ATGAGTTTTG ATCCAGCTC TTCTCTCCT GGCTTCTCTG 300  
 GCCATTTCTC TAAGTTTCTC TNCANGTNTN NCCTTTTCT TCTGAGCCAT TTTTCTCTCT 360  
 ACTTGGGCGT CGACGGCCTC TGGGGCCCTC GAG 393

## (2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 564 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GTGACCAAGG CATACACAGG AAGATACATT CACAGAAAGA GCTTCCTGCA CAAAGTAAGC 60  
 CACCAGCGCA ACATGACAGT GAAGACCCTG CATGGCCAG CCATGGTCAA GTACTTGCTG 120

CTGTCGATAT	TGGGGCTTGC	CTTTCTGAGT	GAGGCGGCAG	CTCGGAAAAT	CCCCAAAGTA	180
GGACATACTT	TTTTCCAAAA	GCCTGAGAGT	TGCCCCGCTG	TGCCAGGAGG	TAGTATGAAG	240
CTTGACATTG	GCATCATCAA	TGAAAACCAG	CGCGTTTCCA	TGTCACGTAA	CATCGAGAGC	300
CGCTCCACCT	CCCCCTGGAA	TTACACTGTC	ACTTGGGACC	CCAACCGGTA	CCCCTCGGAA	360
GTTGTACAGG	CCCAGTGTAG	GAACCTGGGC	TGCATCAATG	CTCAAGGAAA	GGAAGACATC	420
TCCATGAATT	CCGTTCCCAT	CCAGCAAGAG	ACCCTGGTCG	TCCGGAGGAA	GCACCAAGGC	480
TGCTCTGTTT	CTTTCCAGTT	GGAGAAGGTG	CTGGTGACTG	TTGGCTGCAC	CTGCGTCACG	540
TCAACGGCCT	CTTTGGCCCT	CGAG				564

## (2) INFORMATION FOR SEQ ID NO:5:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GTCGACCTTC	AGTTGCCTCA	GACCCAGTA	ATACAACGGT	CACCACCATG	AAACCTACAG	60
CGGCATCTAA	TACAACAACA	CCAGGGATGG	TCTCAACAAA	TATGACTTCT	ACCACCTTAA	120
AGTCTACACC	CAAAACAACA	AGTGTTCAC	AGAACACATC	TCAGATATCA	ACATCCACAA	180
TGACCGTAAC	CCACAATAGT	TCAGTGACAT	CTGCTGCTTC	ATCAGTAACA	ATCACAACAA	240
CTATGCAATC	TGAAGCAAAG	AAAGGATCAA	AATTTGATAC	TGGGAGCTTT	GTTGGTGGTA	300
TTGTATTAAC	GCTGGGAGTT	TTATCTATTC	TGTCAACGGC	CTCTTGGCC	CTCGAG	356

## (2) INFORMATION FOR SEQ ID NO:6:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 520 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GTACTGCTGC	ACGGACTCTG	GAACCATGAA	CATATTTGAT	CGAAAGATCA	ACTTTGATGC	60
GCTTTTAAAA	TTTTCTCATA	TAACCCCGTC	AACGCAGCAG	CACCTGAAGA	AGGTCTATGC	120
AAGTTTTGCC	CTTTGTATGT	TTGCGGCGGC	TGCAGGGGCC	TATGTCCATA	TGGTCACTCA	180
TTTCATTGAG	GCTGSCCTGC	TGTCTGCCTT	GGCTCCCTG	ATATTGATGA	TTTGGCTGAT	240
GGCAACACCT	CATAGCCATG	AAACTGAACA	GAAAAGACTG	GGACTTCTTG	CTGGATTTGC	300
ATTCTTTACA	GGAGTTGGCC	TGGGCCCTGC	CCTGGAGTTT	TGTATTGCTG	TCAACCCAG	360
CATCCTTCCC	ACTGCTTTCA	TGGGCACGGC	AATGATCTTT	ACCTGCTTCA	CCCTCAGTGC	420
ACTCTATGCC	AGGCGCCGCG	GCTACCTCTT	TCTGGGAGGT	ATCTTGATGT	CAGCCCTGAG	480
CTTGTGCTT	TTGTCGACGG	CCTCTTTGGC	CCTCGAGACA			520

## (2) INFORMATION FOR SEQ ID NO:7:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GTGACGTAC	CACCAGCAAC	CATCAATCCC	GTCTCCTCCT	GCCTCCTCTC	CTGCAATCCA	60
CCCCGCCACG	ACTATCGCCA	TGGCAGCCCT	GATCGCAGAG	AACTTCCGCT	TCCTGTCACT	120
TTTCTTCAAG	AGCAAGGATG	TGATGATTTT	CAACGGCCTG	GTGGCACTGG	GCACGGTGGG	180
CAGCCAGGAG	CTGTCCTCTG	TGGTGGCCTT	CCACTGCCCC	TGCTCGCCGG	CCCGGAAC TA	240
CCTGTACGGG	CTGGCGGCCA	TCGGCGTGCC	CGCCCTGGTG	CTCTTCATCA	TTGGCATCAT	300
CCTCAACAAC	CACACCTGGA	ACCTCGTGCG	CGAGTGCCAG	CACCGGAGGA	CCAAGA ACTG	360
CTCCGCCGCC	CCCACCTTCC	TCCTTCTAAG	CTCCATCCTG	GGACGTGCGG	CTGTGGCCCC	420
TGTCACCTGG	TCTGTCACT	CCCTGCTGCG	TGGTGAGGCT	TATGTCTGTG	CTCTCAGTGA	480
GTTCTGTGAC	CCTTCCTCAC	TCACGGCCTC	TTTGGCCCTC	GAGACA		526

## (2) INFORMATION FOR SEQ ID NO:8:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GTCACTGTG	CAGCGGAGTT	TGACTTTATG	GAAAAAGAGA	CTCCACTGAG	ATACACAAAG	60
ACATTATTGC	TTCCAGTTGT	TCTTGTAGTG	TTTGTGCTA	TGTTAGAAA	GATTATTAGT	120
GATATGTGGG	GTGTCTTAGC	TAAACAACAG	ACACATGTAA	GAAAACACCA	GTTTGATCAT	180
GGAGAGCTGG	TTTACCATGC	ATTGCAATTG	TTAGCATATA	CAGCCCTTGG	TATTTTAATT	240
ATGAGACTAA	AACTCTTCTT	GACACCATAC	ATGTGTGTTA	TGGCATCACT	GATCTGCTCA	300
AGACAGCTAT	TTGGATGGCT	CTTTTGCAAA	GTACATCCTG	GTGCTATTGT	GTTTGT TATA	360
TTAGCGCAAA	TGTC AATACA	AGGTTGAGCA	AATCTGCAAA	CCCAGTGGAA	GTCGACGGCC	420
TCCTTTGGCCC	TCGAGACA					438

## (2) INFORMATION FOR SEQ ID NO:9:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GTGACCCCTA	CACCATGTTT	TTCTCCACGT	TCTACCACGC	CTGCGACCAG	CCCGGGGAGG	60
CGGTGCTGTG	CATCCTCAGC	TACGACACGC	TGCAGTACTG	CGACTTCTTG	GGCTCCGGGG	120
CGGCCATCTG	GGTCACCATC	CTGTGCATGG	CACGGCTCAA	GACAGCCCTG	AAATACGTGC	180
TGTTTCTTCT	GGGTACACTG	GTCAATCGCA	TGTCCTTGCA	GCTGGACCGC	AGGGGCATGT	240
GGAACATGCT	GGGGCCCTGC	CTCTTTGCCT	TCGTGATCAT	GGCCTCCATG	TGGGCTTACC	300
GCTGCGGGCA	CCGGCGCCAG	TGCTACCCCA	CCTCGTGGCA	GCGCTGGGCC	TTCTACCTCC	360
TGCCCGGCGT	CTCTACGGCC	TCTTTGGCCC	TCGAG			395

## (2) INFORMATION FOR SEQ ID NO:10:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

GTCGACAGAM	WNCAACCCTC	AGACGCCACA	TCCCCTKACA	AGCTGMCAGG	CAGGTTCTCT	60
TCCTCTCACA	TACTGACCCA	CGGKTCCACC	CTCTCTCCCC	TGGAAAGGAC	ACCATGAGCA	120
CTGAAAGCAT	GATCCGGRAC	GTGGAGCTGK	CCGAGGAGGN	GYTCCCCAAG	AAGACAGGGG	180
GGRCCCAGGG	CTCCAGGCGG	GGGTTTGTTT	CTCAGWCTCT	TCTCCTTCCT	GATCGNGGGA	240
GGGGGCACCA	CGCTCTTCTG	TCTGCTGGAC	TTTGGAGTGA	TCGGNCCCCA	GAGGGAAGGA	300
GTTCCCCAGG	GGAACCTCTC	T				321

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

GTCGACGGCC	GAGAWGGACA	TGAAGCAATA	TCAAGGCTCC	GGCGGCGTCG	CCATGGATGT	60
GGNACGGAGT	CGCTTCCCCT	ACTGCGTGGT	GTGGACGCCC	ATCCCGGTGN	TCACGTGGTT	120
TTTCCCCATC	ATCGGCCACA	TGGGCATCTG	CACATCCACA	GGAGTCATTC	GGGACTTCGC	180
GGGCCCCCTAC	TTTGTCTCAG	AGGACAACAT	GGCCTTTGGA	AAGCCTGCCA	AGTACTGGAA	240
GTTGGACCCT	GCTCAGGTCT	ATGCTAGCGG	GCCCAACGCA	TGGGACACGG	CTGTGCACGA	300
CGCCTCTGAG	GAGWACAAGC	ACCGCATGCA	CAATCTCTGC	TGTGACAACT	GCCACTCGCA	360
CGTGGCATCG	GCCCTGAATC	TGATGCGCTA	CAACAACAGC	ACCAACTGGA	ATATGGTGAC	420
GCTCTGCTTC	TTCTGCTTGC	TCTACGGGAA	GTACGTCAGC	GTTGGGGCCT	TCGTGAAGAC	480
CTGGCTGCCC	TTTATCCTTC	TCCTGTCGAC	GGCCTCTTTG	GCCCTCGAGA	CA	532

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 580 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GTGTACACCA	AGATGATGAC	CAAGAAGCCG	GGCATGTTCT	TCAACCCCGA	GGAGTCGGAG	60
CTGGACCTGA	CCTACGGNAA	CAGATACAAN	AACGTGAAGC	TCCCTGACGN	CTACGAGCGC	120
CTCATCCTGG	ACGTCTTCTT	TGGGAGGCAG	ATGNACTTCG	TGCGCAGGGA	CGANCTCNT	180
GAGGNTGGC	GTATTTTCA	CCCCACTGNT	GTACCANATT	GAGCTNGAGA	AGGCCAAGCC	240
TCCAGGAACA	CATGTGGGGT	CATTACCAAA	CAGGGTCCAT	CCACATGATG	GTGAACATCA	300
ANCTTTGGGC	GGACAANGAT	TGCTGGGAAT	GGGAATCCTG	TTCCTGGGG	AGCTCTGGGA	360
GTTCTTGAGC	TTTGCTGAAA	GGTACCCTGC	CATCATCTAT	AACATCCTGC	TCTTTGGGCT	420
GACCAATGCC	CTGGGTGAGA	GCWTCATCTT	TATGACGATT	GTGTATCTTG	GTCCCCTGAC	480
CTGCTCCATC	ATCACTACAA	CTCGAAAGTT	CTTCACAAAW	KTGCCCCGCTG	TGATCCTCTT	540
CGCCAATCCC	ATGTCGACGG	CCTCTTTGGC	CCTCGAGACA			580

(2) INFORMATION FOR SEQ ID NO:13:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

```

GTCGACACTA CTTATGCGGC TACTTTGTCC AGGGCACAAA ATGCCGTGGC AGTATCTAAC      60
TAAACCCCCA CAAAACTGCT TAATAACAGT TTKGRATGTG AGAAATTTAG ATAATTTAAA      120
TATAAGGTGC AGGTTTAAAT TTCTGAGTTT CTCTTTTCT ATTTTATTA AAAAGAAAAT      180
AATTTTCAGA TTTAATTGAA TTGGAAAAAA CAATACTTCC CACCAGAATT ATATATCCTG      240
AAAATTGTAT TTTTGTATA TAAACAACTT TTAAGAAAGA TCATTATCCT TTTCTCTACC      300
TAAATATGAG GAGTCTTAGC ATAATGACAA ATATTTATAA TTTTCAATT AATGGTACTT      360
GCTGGATCCA CACTAACATC TTTGCTAATA ATCTCATTGT TTCTTCGTCA ACGGCCTCTT      420
TGGCCCTCGA GACA                                     434

```

## (2) INFORMATION FOR SEQ ID NO:14:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

```

GTGGACGTTT TTTTTTCTT TTTCTTTTT TTAAGAAAAA CCCATTTTT TCCTTAAGGA      60
CTTACTAGCC AAAATTCTT AACTTCGAG GACTCTACTA GCCATGGCCG AGCCATTCTT      120
GTCAGAAATAT CAACACCAGC CTCAAACTAG CAACTGTACA GGTGCTGCTG CTGTCCAGGA      180
AGAGCTGAAC CCTGAGCGCC CCCCAGGCGC GGAGGAGCGG GTGCCCAGAG AGGACAGTAG      240
GTGGCAATCG AGAGCGTTCC CCCAGTTGGG TGGCCGTCCG GGGCCGGAGG GGGAAAGGGAG      300
CCTGGAATCC CAACCACCTC CCTTGACAGC CCAGGCCTGT CCAGAATCTA GCTGCCTGAG      360
AGAGGGCGAG AAGGGCCAGA ATGGGGACGA CTCGTCCGCT GCGGCGGACT TYCCGCCGCC      420
GGCAGAAAGTG GAACCGACGC CCGAGGCCGA GCTGCTCGCC CAGCCTTGTC ATGACTCCGA      480
GGCCAGTAAG ATGGGGTCGA CGGCCTCTT GGCCTCGAG ACA                          523

```

## (2) INFORMATION FOR SEQ ID NO:15:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 142 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

```

GTCGACCCTC ANTGTCTGG AACTGGTCTT GGAAGGGATN GTTTATNCTG AGTACACCTG      60
GGAAGTATTT GGGTACTGTC ANGAGCTGGA GTTGNCTNG NATTACCNTC TTCTGCCNA      120
TCTGGTGGTA GGGGTAAACC NG                                     142

```

## (2) INFORMATION FOR SEQ ID NO:16:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 534 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

```

GTCCACCCGG GCCGCCCTC GCCGCCCGG CTCTTCGGG GCTGCTCTTT GTCTCCCCGA      60
CCTCGATCCC TGCCTCTCCG GCGGCGTGG CGCTCGTCTG AGGCTTCCCG CATCTCCCCG      120
CTGGAATCC TGCCTCCCCG GGGTTAGAGG AGGGTTCGTT CGAGGGCTGG AAGCGGGAAA      180
GCGGGGCGGA AGGACTGGGC TCATCGCCTC CTGATTAACT CGTTGTCTTT ACTTAAAATG      240
ACTTTTCCCC CACTTTGTCA AACTTGAGAA CTGTSTTGTG TGTGTGTGTT TCCTTGAGTC      300
TCTAGCTTCA AAATTAAGAG TAGGCGCTAC CGCTGCGATT GTGGGCAGTT GTGTGGTTGG      360
CGGCTGCGTT TGGAGCTCTG AGTTGAAAAG ATGTACGTGA ATGTATGGTT TAGATTTTGT      420
TCTTTTTTTT GCGATTGTC GATTGGGAGT ACTTTTCCTT TCGGAAATGG GCGAATTGG      480
TTTCTTTTTT GTTCATTGAG AACTGGGTCG ACGGCCTCTT TGGCCCTCGA GACA          534

```

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 558 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

```

GTCGMCGAAG GGAAGAAGAA GATGAACAAG AACAATGCCA AGGCTCTGAG CACCTTGCGT      60
CAGAAGATCC GAAAATACAA CCGTGATTTC GAGTCCCATA TCACAAGCTA CAAGCAGAAC      120
CCCGAGCAGT CTGCGGATGA AGATGCTGAG AAAAGTGAGG AGGATTCAGA AGGCTCTTCA      180
GATGTGGATG AGGATGAGGA CGGAGTCAGT GCTGCAACTT TCTTGAAGAA GAAATCAGAA      240
GCTCCTTCTG GGGAGAGTCG CAAGTTCCTC MAAAAGATGG ATGATGAAGA TGAGGACTCA      300
GAAGATTCCG TAGATGATGA AGACTGGGAC WCAGGTTCCA CATCTTCCGA CTCCGACTCA      360
GAGGAGGAAG AAGGGAAACA AACCGCGCTG GCCTCAAGAT TTCTTAAAAA GGCACCCACC      420
ACAGATGAGG ACAAGAAGGC AGCCGAGAAG AAACGGGAGG ACAAAGCTAA GAAGAAGCAC      480
GACAGGAAAT CCAAGCGCCT GGATGAGGAG GAGGAGGACA ATGAAGGCGG GGTACGCGCC      540
TCTTTGGCCC TCGAGACA

```

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 465 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

```

GTTGACGGCC AGCTTGCTGT CTAACTTTTC ACATCGGAGA AGCTCCTTGG CCTGGGAGGA      60
CTTCTCCGTG CCTTCCCCCT TCCCAGAGAT GCCCTGTGCG AGGGAGTGGC AGAGACCATC      120
CTGGAGGGTG CCAGGAGCGG GGGCCCCGTCT GAAGTCCCCG CCACCTTGGC GGTGCTCCGC      180
AGGCACCGGG CCATCCGACA TCGCACCTCT GCTGGCGCGC ACGCTGGCCT GCTTGTGAAG      240

```

AGCATCCTTC	AGCAGGCTGC	CCAGCGGTGG	CGCCTCCTGC	ATAGACGCTT	TGTTTTCAAA	300
AGTACTTGAC	CTTTCCACAG	CCTTCGGATA	GACTTTCTTC	TCTCTCTCTT	CCAGCTTAAA	360
CAGAGCAAAG	TTTTCCAAAT	CACTCCCAGG	TCCATGGGAT	TTCTGGTGGG	ATTCTGTTT	420
CTCTGGGAAG	CCGTCTGGTC	GACGGCCTCT	TTGGCCCTCG	AGACA		465

## (2) INFORMATION FOR SEQ ID NO:19:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 694 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GNNNTCGTTG	TTCCAGAACT	TGATGAGGGG	ATCTCGGAAC	AACACNGAAA	CTTTTCCCTC	60
CCTCANTNAC	GCACCNCGAC	TCTCTATTGA	GCCAACGGNA	ANNCGGCCCT	TCCCTCCAAG	120
TAACTTTGNA	TTTGAAAATA	AAAAAAAAG	NTTGCTGTCC	TTGCTATCCA	AGAATAAATA	180
GACCTNCAAN	TATTAATCTT	TTGTTTCCCT	CGTCATTGTT	CTCGTTCCCT	TTCTNCCTTG	240
TTTCTTTTTC	TGCACAATAT	ATCAAGCNAT	ACCAAGCATA	CAATCAAAC	CCAAGCTCGG	300
AATTCGGCCA	NAGAGACCGT	CGACGGAAGA	AATTGNCCTG	AAACTTGTTT	ATGGTGATAT	360
ATACCGTCCN	CCAAGAAAAG	GGATGCTGCT	ATCAGTCTTT	CTAGGATCCG	GGACACAGAT	420
ATTAATTATG	ACCTTTGTGA	CTCTATTTT	CGCTTGCCTG	GGAGTTTGT	CACCTGCCAN	480
CCGAGGAGCG	CTGATGACGT	GTGCTGTGGT	CCTGTGGGTG	CTGCTGGGCA	CCCCTGCAGG	540
CTATGTTGCT	GCCAGATTCT	ATAAGTCCTT	TGGAGGTGAG	AAGTGGAAAA	CAAATGTTTT	600
ATTAACATCA	TTTCTTTGTC	CTGGGATTGT	ATTGCTGAC	TTCTTTATAA	TGAATCTGAT	660
CCTCTGGTCA	ACGGCCTCTT	TGGCCCTCGA	GACA			694

## (2) INFORMATION FOR SEQ ID NO:20:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

AGACTCGTCT	CAGACCAGTT	GCAGCCTTCT	CAACCCAAAC	GCCGACCAAG	GAAAACTCA	60
CTACCATGAG	AATTGCAGTG	ANTTGCTTTT	GCCTCCTAGG	CATCACCTGT	GTCATACCAG	120
NTAAACAGGC	TGATTCTGGA	AGTTCTGAGG	AAAAGCAGCT	TTACAACAAA	TACCCAGATG	180
CTGTGNCCAC	ATGGCTAAAC	CCTGACCCAT	CTCAGAAACA	GAATCTCCTA	GCCCCACAGA	240
CCCTTCCAAG	TAAGTCCANC	GAAAGCCATG	ACCACATGGA	TGATATGGAT	GATGAAGATG	300
ATGATGACCA	TGTGGACAGC	CAGGACTCCA	TTGACTCGAG	CGACTCTGAT	GATGTAGATG	360
ACACTGATGA	TTCTCACCAG	TCTGATGAGC	CTCACCATTG	TGATGAATCT	GATGAAGTGG	420
TCACTGATTT	TCCCACGGAC	CTGCCGTCGA	CGGCCTCTTT	GGCCCTCGAG	ACA	473

## (2) INFORMATION FOR SEQ ID NO:21:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 204 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

AGAAGCTGTG ATCTTCAAGA CCATTGTGTC CAAGGAGATC TGTCTGATCC CAAGCAGAAG	60
TGGGTTCAGG ATTCCATGGA CCACCTGGAC AAGCAACCCA AAATCCGAA GACGTGAACA	120
CTCACTCCAC AACCCAAGAA TCTGCAGCTA ACTTATTTT CCCTAGCTTT CCCCAGACGT	180
CGACGCCTCT TTGCCCTCGA GACA	204

## (2) INFORMATION FOR SEQ ID NO:22:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GTCCACACAC GCCGACCACG GAAAACTCAC TACCATGAGA ATTGCAGTGA TTTGCTTTTG	60
CCTCCTAGGC ATCACCTGTG CCATACCACT TAAACAGGCT GATTCTGGAA GTTCTGAGGA	120
AAAGCAGCTT TACAACAAAT ACCCAGATGC TGTGGCCACA TGGCTAAACC CTGACCCATC	180
TCAGAAGCAG AATCTCCTAG CCCCACAGAA TGCTGTGTCC TCTGAAGAAA CCAATGACTT	240
TAAACAAGAG ACCCTTCCAA GTAAGTCCAA CGAAAGCCAT GACCACATGG ATGATATGGA	300
TGATGAAGAT GATGACGACC ATGTGGACAG CCAGGACTCC ATTGACTCGA ACGACTCTGA	360
TGATGTAGAT GACACTGATG ATTCTACCA GTCTGATGAG TCTCACCATT CTGATGAATC	420
TGATGAAGTG GTCAGTGATT TTCCGTCGAC GGCCTCTTG GCCCTCGAGA CA	472

## (2) INFORMATION FOR SEQ ID NO:23:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GTCGACTGAA AATTAACCCT CAGACGCCAC ATCCCCTGAC AAGATGCCAG GCAGGTTCTC	60
TTCTCTCAC ATACTGACCC ACGGGTCCAC CCTCTCTCCC CTGGAAAGGA CACCATGAGC	120
ACTGAAAGCA TGATCCGGGA CGTGGAGCTG GCCGAGGAGG NNTTNCCAA GAAGACAGGG	180
GGGGCCCAGG GGTCCAGGNG GNGCTTGTTT CTCAGACTCT TCTCCTTCCT GATCGTGGGA	240
GGNGNCACCA CGCTCTTCTG NCTGNTGNAC TTTGGAGTGG ATCCGGGCCC CAGAGGGAAG	300
AGTTCCCCCA GGGGACTCTT CTCTAATCNA GNCCTCTTGG	340

## (2) INFORMATION FOR SEQ ID NO:24:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:



```

GTCGACGCGC GCCGGTAAAA ATGGCGAAAT GGGGGTAGGC GCGCTGGAC CTGAAGAGAT      60
GGGGCGCGCA GGTGGGGCGG TTGTCAGAGC CCCCTGACGT GGGCGCCCGG CTTTATCGG      120
CGATTTGATC TGGCGACCTC GGGCCGGCGC CTAAGAGGTC AGACTGCGGA GCCTGCGGGT      180
CGCCAGCGGC CCCGCCGAGT GCCGGAGGCA ATGGATGAAC AGAGCGTGGG GCGCTGKCTG      240
WCAGAGCAGA GAGCTCAATG TCCTCATTCC CGTGCTCCAC TCCAGCTACG AGAACTAGTA      300
AATTGTGCTT GGGCAGAAGA AGTAACACAA CAGCTTGATA CTCTTCAACT CTGCAGTCTC      360
ACCAAACATG AAGAAAATGA AAAGGACAAA TGTGAAATC ACCATGAAAA ACTTAGTGTA      420
TTTTGCTGGA CTTGTAAGAA GTGTATCTAC CATCAGTGTG CACTTGGGT CGACGGCCTC      480
TTTGGCCCTC GAGACA                                     496

```

## (2) INFORMATION FOR SEQ ID NO:25:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

```

AGACACATAG ACCAACCGGG GAGATATGTT TGAATNTGAT GAAGATGAGA TGTCTATGT      60
GGATCTGNAC AAGAAGGAGA CCTCTGTCAT CTGGAGGAGA NTGNCCAACC CTTTTCCTTT      120
GAGNCTCAGG GNGGCTGTC TAACATTGCT ATANTGAACA ACAACNTGAA TACCTTGATC      180
CAGCGTTCCA ACCCACTCA GNCCACCAAC GATCCCCCTG AGGTGACCGT GTTCCCAAG      240
GTCACGGCCT CTTTGGCCCT CGAGACA                                     267

```

## (2) INFORMATION FOR SEQ ID NO:26:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

```

GTCGACCTTG AAGATGTTTT CTAAGAATC AAAAATGCTA CAAAGAAGTA TATCATTTTC      60
AAATATGGCT TTATCGTCTT GTTTACTTTT ACCAGGAGAT GCCACTGTCA TAACTTCTTC      120
ATGGGATAAT AATGTCTATT TTTATTCCAT AGCATTTGGA AGACGCCAGG ACACGTTAAT      180
GGGACATGAT GATGCTGTTA GTAAGATCTG TTGGCATGAC AACAGGCTAT ATTCTGCATC      240
GTGGGACTCT ACAGTGAAGG TGTGGTCTGG TGTTCTGCA GAGATGCCAG GCACCAAAAG      300
ACACCACTTT GACTTGCTGG CCGAGCTGGA ACATGATGTC AGTGTAGATA CAATCAGTTT      360
AAATGCTGCA AGCACTGT TAGTTCCGG CACCAAGAA GGCACAGTA ATATTGGGA      420
CCTCACAACG GCCTCTTTGG CCCTCGAGAC A                                     451

```

## (2) INFORMATION FOR SEQ ID NO:27:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

```

GTTGACGCAA GTTGCTGGGC TGGTGGGGC CTGTCAAGTG AGGCCTGGTG GAGAAAGGTT      60
GAATTTGGAG GGCCAGGAAC AAGCTGGGAT GCAGGGGAGG CTTTCTAAAC TCTACAGTGC      120
TTCTAGAGAT GACGAGGAGG TAGGGAGTAG AAGAGAGCCG GACAGATTAG GGAGCTCCCA      180
GGGTGAGCTT GTGGGCAGSC CTSCAGAGGA GAAGAGGCTC TTCCCTAGGA GCTCAGAGGG      240
ACTTGTTCTG GAAGACTGAT GGGAGATGTA TGCAGCTGTT TAGAGGCTGC TTTGGAGAAC      300
AAATGAACAT GGTTCCTGTT GTGCAAGCAG TTACTGTGGT TCTTTTGTCT CATATATCTT      360
CCAATAAAGA CATTGAGCGA GGAGAGTTGA TACCGTCATG TTTTGGAGC TTAAGCACAG      420
ACTGGCAGGT CGACGGCCTC TTTGGCCCTC GAGACA                                456

```

## (2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 395 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

```

GTGCACAGAA TTCACAACAT CCCAAGATTC CACCTCNCAA GATGTTTTCT AAAGNAATCA      60
AAAAATGCTAC AAAGAAGTAT ATCATTTC AATATGGCTT TATCGTCTTG TTTACTTTTA      120
CCAGGAGATG CCACTGTCAT AACTTCTTCA TGGGATAATA ATGTCTATTT TTATTCCATA      180
GCATTGGAA GACGCCAGGA CACGTTAATG GGACATGATG ATGCTGTTAG TAAGGATCTG      240
TTGGCATGAC AACAGGCTAT ATTCTGCATC GTGGGACTCT ACAGTGAAGG TGCGGTCTGG      300
TGTTCCCTGC AGAGATGCCA GGCACCAAAA GACACCACTT TGGCTTGNTG GCCGAGCTGG      360
ACATGATGTC AGNGTNGGTA CAATCAAGNT TANNA                                395

```

## (2) INFORMATION FOR SEQ ID NO:29:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 471 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

```

GTGGNCCGAG ATAGAGGAGG CTTCCTCCA AGAGGACCCC GGNGTTCCCG AGGGAACCCC      60
TCTNGAGGAG GAAACGTCCA GCACCGAGCT GGAGACTGGC AGTGTCCCAA TCCGGGTGTG      120
GGAAACCAGA ACTTCCCCTG GAGAACAGAG TGCAACCAGT GTAAGGCCCC AAAGMCTGAA      180
GGCTTCCTCC CGCCACCCTT TCCGCCCCCG GGTGGTGATC GTGRCAGAGR TGGCCCTGST      240
GGCATACGGG GAGGAAGAGR TGGCCTCATG GATCGTGGTG GTCCCGGTGG AATGTTTACA      300
GRTGGYCGTK GTGGAGACAG AGRTGKCTTC CGTKGTGGCC GGGGCATGGA CCGAGGTGKC      360
TTTGGTGGAG GAAGACNAGG TGTCCCTGGG GGCCCCCTG NTCCTTTGAT GGAACAGATG      420
GGAGGAAGAA GAGGAGGACG TGGGTCGACG NCCTCTTTGT CCCTCGAGAC A                                471

```

## (2) INFORMATION FOR SEQ ID NO:30:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 406 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

GTCGACCGTC	TACGCCTACA	CCATGTTCTT	CTCCACGTTT	TACCACGCCT	GCGACCAGCC	60
CGGGGAGGCG	GTGCTGTGCA	TCCTCAGCTA	CGACACGCTG	CAGTACTGCG	ACTTCTTGGG	120
CTCCGGGGCG	GCCATCTGGG	TCACCATCCT	GTGCATGGCA	CGGCTCAAGA	CAGTCTTGAA	180
ATACGTGCTG	TTTCTTCTGG	GTACACTGGT	CATCGCCATG	TCCTTGACAG	TGGACCGCAG	240
GGGCATGTGG	AACATGCTGG	GGCCCTGCCT	CTTTGCCTTC	GTGATCATGG	CCTCCATGTG	300
GGCTTACCGC	TGCGGGCACC	GGCGCCAGTG	CTACCCACCC	TCGTGGCAGC	GCTGGGCCTT	360
CTACCTCCTG	CCCGGCGTCT	CTACGGCCTC	TTTGGCCCTC	GAGACA		406

## (2) INFORMATION FOR SEQ ID NO:31:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 448 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GTCGCCCAGC	AAGTGAGCAG	ATCCTCCGAG	GCACCAGGGN	ACTCCAGCCC	ATGCCATGGC	60
GGATTCTGAG	CGCCTCTCGG	CTCCTGGCTG	CTGGGCGGCC	TGCACCAACT	TCTCGCGCAC	120
TCGAAAGGGA	ATCCTCCTGT	TTGNTGAGAT	TATATTATGC	CTGGTGATCC	TGATCTGCTT	180
CAGTGNCTCC	ACACCAGGCT	ACTCCTCCCT	GTCCGTGAYT	GAGATGATCC	YTSCTCSCTA	240
TCTTTCCTYT	GTTGTCTACA	TGTGTGACCT	GCACCACCAA	GATACCATTG	ATCAACTGSS	300
CCTGGAGTGA	TTTCTTCCGA	ACCCTCATAG	GGGSAATCCT	CTACCTGATC	AMCTCCATTG	360
TKGTCCTKGT	TGAGAGAGGA	AACCACCCCN	TNAATCGTTC	GTAGGGGTAC	TGGGCCTAAT	420
CGCTACGGCC	TCTTTGGCCC	TCGAGACA				448

## (2) INFORMATION FOR SEQ ID NO:32:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

TTNCAATCNC	CGATCCCCAT	CACGAATGGG	GGGCACCGGG	TTACCCCCCC	CCTCCCGCCG	60
TAGGGTAGGC	ACACNCTGAG	CCAGTCAGTG	TATCGCGCGT	GCATCCCCGG	ACATCTAAGG	120
GCATCACAGA	CCTGTTNTTG	NTCAATCTCG	GGTGGNTGNN	CGCCACTTGT	CNCTCTAAGA	180
ANATGGGGGA	CGCCGNCCGC	TCGGGGGTNG	CGTAACTAGN	TAGNATNCCA	GAGTCTCGTT	240
CGTTATCGGA	AGTAACCAGA	CANATCGCTC	CNCCAATAA	GANNGGCCAT	NCACCACCAC	300
CCACGGAATC	GAGANAGAGC	TATCAATCTG	TTGTAGGACA	TAACCCGGCT	TCTTGGTCAT	360
CATCNTGGTG	TACNCGNCCT	CTTGNCCCT	CGAGACA			397

## (2) INFORMATION FOR SEQ ID NO:33:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

TCCTGCCTGC	TGGGCCGCCT	TNCACCCAAC	TTCTCGCGCA	CTCGAAAGGG	AATCCTCCTG	60
TTTGCTGAGA	TAAATANTAT	NCCTGGTGAT	CCTGATCTGC	TTCAGTGCCT	CCACACCAGA	120
CNACTCCTCC	CTGTGGTGA	TTGAGATGAT	CCTTGCTGCT	ATTTCTTTG	TTGTCTACAT	180
GTGTGACCTG	CACACCAAGA	TACCATTTCAT	CAACTGGCCC	TGGAGTGATT	TCTTCCGAAC	240
CCTCATAGCG	GCAATCCTCT	ACCTGATCAC	CNCCGTTGTT	GTCCTTGTG	AGAGAGGAAA	300
CCACTCCTAC	AATCGTCGCA	GGGGTACTGG	GCCTAATCGC	TACGGCCTCT	TTGGCCCTCG	360
AGACA						365

(2) INFORMATION FOR SEQ ID NO:34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GTCGACGACA	CGCTGTCTTC	ACTACCTGAT	TGCCCAGAAG	ATCCCACTG	TCTACACTAC	60
CTGCCTGGCC	AGTAGATCCA	CGGTATCTAC	ACTACCTCCC	TGGCCAGCAG	ATTCACCCAG	120
TCTACACTAA	CCGCTTGTC	AGCAGGTCCA	CCCTGTCTAC	ACTACGTGCC	TGCCAGCAGA	180
TCCAAGCTGT	CTACACTCCC	TGCCTGGCCA	GATAGTCCAT	GCTATCTCCA	CTACCTGCCT	240
ATCCAAGTGA	TCCACCCTCT	CTTTACTACC	TTCTGTCCG	GCAGATTGAC	CCTCTCTACT	300
CTACCTGCCT	GGCCAGCAGA	TCCACGCTAT	CTACACTACC	TGACTTACCA	GATCCACCCT	360
GTCTACACTA	CATGCTTGTC	CAGCAGGTCC	ACCCTGTCTA	CACTACCTGC	CTCTCCAGAA	420
GATCCACGTC	AACGGCCTCT	TTGGCCCTCG	AGACA			455

(2) INFORMATION FOR SEQ ID NO:35:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GGGANTTNGG	CCCAAAGAGC	CGTTTGAGT	NAACCNAAGA	AGTCAAGATT	GGCCCNAACT	60
TCCAGANATG	TTTGAAGAC	CTGGAGAACT	GTTACAGTGN	AAATGAAGAA	GACAGTTCCT	120
CCATTGATCA	TCTGTCTCTG	AATCAGAAAT	CCTTCTATCA	TGTAAGCTAT	GGCCCACTCC	180
ATGAAGGCTG	CATGGATCAA	TCTGTGTCTC	TGAGNATCTC	TGAAACCTCT	AAAAACATCCA	240
AGCTTACCTT	CAAGGAGAGC	ATGGTGGTAG	TANCANCCAA	CGGGAAGGTT	CTGAAGAAGA	300
GACGGTTGAG	TTTAANCCAA	TCCATCACTG	ATGATGACCT	GGAGGCCATC	GCCAATGACT	360
CAGAGGAAGA	AATCATCAAG	CCTAGGTCAT	CACCTTTTAT	CTCCCCGAGC	AATGTGAAAT	420
ACAACTTTAT	GAGGATCATC	AAATACGAAT	TCATCCTGAA	TGACGCCCTC	AATCAAAGGT	480
CGACGGCCTC	TTTGGCCCTC	GAGACA				506

(2) INFORMATION FOR SEQ ID NO:36:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

```
CGGTAACGCN GTTNTCCTNA GCGGAGCTCA GGGAGNACAA GAAACCCTCC CGTGGAGCAA      60
GAANGCCACA AGCTCNCTTG ATCTTGATTA TCAGGACGAA AACAGACCGT GAAAGCGGGG      120
CCTCACGATC CTTCTGACCT NNTGGGTNTT AAGCAGGAGG TGTCAGAAAA GTTNCCACAG      180
GGATAACTGN CTTGTGNCGN CCAAGCGNTC ATAGCGACGT CGCTTTTGA TCCTTCGATG      240
TCGGCTCTTC CTATCATTGT GAAGCAGAAT TCACCAAGCG TTGGATTGTT CACCCACTAA      300
TAGGGAACGT GAGCTGGGTT TAGACCGTCG TGAGACAGGT TAGTTTACC CTACTGATGA      360
TGTGTTGTTG CCATGGTAAT CCTGCTCAGT ACGAGAGGAA CCGCAGGTTT AGACATTGG      420
TGTATGTGCT TGGCTGAGGA GCCAATGGTC GACGGCCTCT TTGGCCCTCG AGACA      475
```

(2) INFORMATION FOR SEQ ID NO:37:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 460 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

```
GTTGACCCGA TGGAGGAGGA GGAGGTTGAG ACGTTCGCCT TTCAGGCAGA AATTGCCCAG      60
TTGATGTCAT TGATNCATCA ATACTTTCTA CTCGANCAAA GAGATCTTTC TGAGAGAGCT      120
CATTTCAAAT TCATCAGATG CATTGGACNC AATCCGGTAT GAAAGCTTGA CAGATCCCAG      180
TAAATTAGAC TCTGGGAAAG AGCTGCATAT TAACCTTATA CCGAACAAAN AAGANCGAAC      240
TCTCACTATT GTGGATACTG GAATTGGAAT GACCAAGGCT GACTTGATCA ATAACCTTGG      300
TACTATCGCC AAGTCTGGAC CAAAGCGTTC ATGGAAGCTT TGCAGGCTGG TGAGATATC      360
TCTATGATTG GCCAGTTCGG TGTGGTTTT TATTCTGCTT ATTTGGGTGC TGAGAAAGTA      420
ACTGTGATCA CCGTCGACGG CCTCTTTGGC CNGCGAGACA      460
```

(2) INFORMATION FOR SEQ ID NO:38:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 435 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

```
TCAAGCAATA CCCAAGCAAA CAATCNACTC CAANCTCGGA ANTCGNCCNA AGAGACCGTC      60
GACCCCGTGT TCACNATGGT AGNNACGCCG NCTACCATCG ANAGTTGATA GGGCAGACGT      120
TCGNGTGGGT CGTCTCCCCC CCGGGGGGCG TGCGATCGCC CCGAGGTTAT CTAGAGTCAC      180
CACACCCGCC GCGCCCNCC CCCCNCNCGN NAAAAAAGA GGGGCTGTCN GGGNTGGTTT      240
TGNTNGATA AATANACGCA TCCCCCCCC GNNGGGGGNN AGCGCCCGTC GGCATGTATT      300
ANCTCTAGAA TTACCACAGT TATCCAAGTA GGAGAGGAGC GAGCGNCCAN AGGANCCATA      360
NCTGATTATA TGAGCCATTC NCAGTTTCNC TGTCCGNCC GTGCGTACGN AACGACCTCT      420
TTGTNCNTAA AGNCG      435
```

## (2) INFORMATION FOR SEQ ID NO:39:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

GTGACCACA CTGCTGCTCA CGCTCAGCAA CCTCATGTTT CTGGCCCCCA TGGCCGTCTC	60
AGTGC GGCGA TTCTTCCTGG TGGAGGCCTC CGTCTACGCC TACACCATGT TCTTCTCCAC	120
GTTCTACCAC GCCTGCGACC AGCCCGGGGA GCGGTGCTG TGCATCCTCA GCTACGACAC	180
GCTGCAGTAC TCGACTTCT TGGGCTCCGG GCGGGCCATC TGGGTACCA TCCTGTGCAT	240
GGCAGGCTC AAGACAGTCC TGAATACTGT GCTGTTCTT CTGGGTACAC TGGTCATCGC	300
CATGTCCTTG CAGCTGGAC GCAGGGGCAT GTGGAAGTTG CTGGGGCCCT GCCTCTTTGC	360
CTTCGTGATG ATGGCCTCCA TGTGGGCTTA CCGCTGCGGG CACCGCGGCC AGTGCTACCC	420
CACCTCGTGG CAGCGCTGGG CTTCTACCT CTGCCCCGGC GTCTCTACGG CCTCTTTGGC	480
CCTCGAGACA	490

## (2) INFORMATION FOR SEQ ID NO:40:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 516 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

CGTCTCAGGC CAGTTNCANC CTTCTCANNC AGAACGGCGN CCCAAGGAAA ANCTCACTAC	60
CATGAAGAAT TGCAGTGATT TGCNTTTGCC TCCTAGGCAT CACCTGTGCC ATACCAGNTA	120
AANCAGGCTG ATTCTGGAAG TTNCTGAGGG AAAAAGCAGC TTTACAACAA ATACCCAGAT	180
GCTGTGGCCA CATGGCTAAA CCCTGANCCA TCTCAGAAGC AGAATCTCCT AGCCCCACAG	240
AATGCTGTGT CCTCTGAAGA AACCAATGAC TTAAACAAG AGACCCAAAC AAGTNAGTCC	300
NACGAAAGCC ATGACCACAT GGATGATATG GATGATGAAG ATGATGATGA CCATGTGGAC	360
AGCCAGGACT CCATTGACTC GNNCGACTCT GATGATGTAG ATGACACTGA TGATTCTCAC	420
CAGTCTGACG AGTCTACCA TTCTGATGAA TCTGATGAAC TGGTCACTGA TTTTCCACG	480
GACCTGCCGT CGACGGCCTC TTTGACCCTC GAGACA	516

## (2) INFORMATION FOR SEQ ID NO:41:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 521 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

GCCAAGACTC GTCTCAGNCC AGTTGCAGCC TTCTCANCCA AACNCCGACC CAAGGANAAC	60
TCCCCTACCA TGAGAATTGC AGTGATTGTC TTTTGCCCTCC TAGGCATCAC CTGTGCCATA	120
CCAGTTAAAC AGGCTGATTG CTGGAAGTTC CTGAGGAAAA GCAGCTTAC AACAAATACC	180

CAGATGCTGT	GTCCACATGG	CTAAACCCTG	ACCCATCTCA	GAAGCAGAAT	CTCCTAGCCC	240
CACAGAAATGC	TGTGTCCTCT	GAAGAAACCA	ATGACTTTAA	ACAAGAGANN	CANCCAAGTA	300
AGTCCANCGA	AAGCCATGAC	CACATGGATG	ATATGGATGA	TGAAGATGAT	GATGACCATG	360
TGGACAGCCA	GGAATCCATT	GACTCGANCG	ACTCTGATGA	TGTAGATGAC	ACTGATGATT	420
CTCACCAGTC	TGACGAGTCT	CACCATTCTG	ATGAATCTGA	TGAACTGGTC	ACTGATTTTC	480
CCACGGACCT	GCCGTCGACG	GCCTCAATGN	CCCTCGAGAC	G		521

## (2) INFORMATION FOR SEQ ID NO:42:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 516 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

GCAAGCAANC	AATCCAACCC	AAGNTNGGGA	NTCGNCCNAA	GAGNCCGTTG	ANCAGAAGCC	60
ANTNATGGAT	GANCAGCGCG	ACCTTATCTC	CAACAATGAG	CAACTGNCCA	TNCTGGGNCC	120
GGNCGCCCTG	GGGCNCCGGA	GAGCAAGTGC	ANCCGCGGAG	CCCTGTACAC	AGGCTTTTCC	180
ATCCTGGTGA	CTCTGCTCCT	CGCTGGCCAG	GCCACCACCG	CCTACTTCCT	GTACCAGCAG	240
CAGNCCGGC	TGGACAAACT	GACAGTCACC	TCCAGAACCC	TGCAGCTGGA	GAACCTGCGC	300
ATGAAGCTTC	CCAAGCCTCC	CAAGCCTGTG	AGCAAGATGC	GCATGNCCAC	CCCGCTGCTG	360
ATGCAGGCGC	TGCCCATGGG	AGCCCTGCCC	CAGGGGCCCA	TGCAGAATGC	CACCAAGTAT	420
GGCAACATGA	CAGAGGACCA	TGTGATGCAC	CTGCTCCAGA	ATGCTGACCC	CCTGAAGGTG	480
TACCCGCCGT	CGACGGCCTC	TTTGGCCCTC	GAGACA			516

## (2) INFORMATION FOR SEQ ID NO:43:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

TGCTATCCNA	GNATAAAATA	AGACCCTGCA	ANTATTAATC	TTNTTTGTTT	CCTCGTCATT	60
GTTCTCGTTC	CCTNTCTTCG	TGTTTTCTNN	TTCTGCACAA	TATNTTCAAG	CTATACCGAG	120
CATACAATCA	AACTCCAAGC	TCGGAATTCG	NCCAAAGAGG	CCGTCGAGCC	GAATTCTCCA	180
CNAGAATAGC	ATTCTGCTC	ATCTGCATGG	TCGCAGTCAC	GAGCCAGATG	NCCTGNTTIN	240
CCACAGTTGT	AGCAGCATTG	CTCTCGCTCT	CTCTTGGGCT	CCTTGCAATG	CTTGGAATG	300
TGGCCGCCTC	TACCGCAGTT	ATAGCAGGCA	TCCTCCTGAA	GATCACAAATC	CTTGGAAGAA	360
TGACCAGACT	CACCACAGCG	ATAACAAATA	TCTGGAAGAG	ACGAGGAAAC	AAACTGGAAA	420
CCTCTATCCG	AGGTAAACC	ACCTCTGCCA	CGGCTTCTCA	TTCCACGACC	ACGGCCTCTT	480
TGGCCCTCGA	GACA					494

## (2) INFORMATION FOR SEQ ID NO:44:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 654 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

```

CCTCCANATN ANCTTTNTTC CTCTCATTGT NTCGTCCCTC CTCCTTGTTT TTTNCTGCCC      60
AAAATCCANC AAANCCAACA ACCATCCNCN CCACCTGGAA GTNGCCCAA GAGGCCGNAC      120
CAAGAAGTGT CGATTCCTTT GTNTGNAGGA GCGACCAGGA ACATCTACGG TTGAGAAGAA      180
AGAAAGANTG CCTTCGTCGA TGTCTTCCTG TGTGAANTTT CCAGACATAG CCCAGTCGAC      240
CAGCCTTCCC CACNAGACTG GAGCGTCTCT ATTGTATNTG GGTCCCTGTA AGAGTAGAAG      300
GGTGAAAATC CCANTGTGTC TGAGTNTTGC GCCNCCACCA TAAACACCGC CTTTTTCTCG      360
AATTTCTGTA TNCAAGAAAN TGTCAGTGTC CACACGTGCA AGGATNTTAA GACTGNCATG      420
ATCTGGGNCC GTGTAGGGGN CAGNTCGGAT NCATTACCCC ACCTAATTCA CCGGGANGGG      480
CATCAGGAAG TGAGTCTTCA TCTCCAGGG CGTGNAGGTG GGTNCCATGA CCAGCTTCCT      540
AATGACCTGG GAGCCATGGG GAACGTGGGC ATCTCCACCA GAGTACTGCG GCACAGGTTT      600
CTCGACCGTG TGTGNCGCA CAGACCGTCG ACGGCCTCTT TGNCCCTCGA GACA          654

```

## (2) INFORMATION FOR SEQ ID NO:45:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

```

GTCGACCTGA GAATCTGGAA AAATTGGAGA AGTTGGGTAT GAGCTCAGAC CTGGTGAGCA      60
GGCTGCCTAC CATTATAGA AATGCACATG ACATCAAGAA TAAGAGCTCT GCGCCAGCA      120
GAGTGCTCC TCTTTTGTG CCACAGGGGA CTTCTGAAAG AAAAGACAGT TCAGGTTCTG      180
TGTCCCCAMA CACTCTTAGC CAGGAGGAGG GTGATCAGAT CTGTTTGTKC CATATCCGGA      240
AAAGTTGTAG CTTTCAAGAT AAGTGCCATA GAGTTTCAAT CCATTGCGG YATCGATGGC      300
AATTCCTGGA TAGAGGCAA TGGGAGGATT TGGACNACAT GGAACNTATT GTAGAGNCAT      360
ATTGCAATCC CCCCATAGAA AGGATCCTGT GCTCTGAGTC AGCCAGTACC TTTCACTCTC      420
ATTGTCTGAA CTNTAACGCC ATGACTTACG GTGCTACCCA GGCTCGCCGC CTCCTCACGG      480
CCTCTTTGGC CCTCGAGACA

```

## (2) INFORMATION FOR SEQ ID NO:46:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

```

GTCGACACAA ATGTTTCCTT GGATAATCCA GCTTTACATG GTGAGAACCA TGCTAGAGTC      60
CCTCATTGCA GACAAAAGTG GTTCCAAGAA AACCTTGAGA AGTAGCCTTG AGGGGCCCAC      120
CATATTGGAC ATAGAAAAAT TTCATCGAGA GTCACTCTTC TACACTCACT TGATAAATTT      180
CAGTGAAACG CTGCAGCAGT GCTGTGACCT TTCGCAGCTG TGGTTCCGAG AGTTCTTCCT      240
GGAGCTGACC ATGGGCAGGA GGATCCAGTT CCCATTGAG ATGTGATGTC CCTGGATCCT      300
GACGGACCAC ATCCTGGAGA CCAAGGAGGC ATCGATGATG GAGTACGTGC TCTACTCCCT      360
GGACCTGTAC AATGACAGCG CCCACTACGC GCTCACCAGG TTCAACAAGC AGTTCTCTTA      420
CGACGAAATT GAGGCCGAGG TCACGGCCTC TTTGGCCCTC GAGACA          466

```

## (2) INFORMATION FOR SEQ ID NO:47:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 384 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

GTCGACGGAA	GTTGATTTTT	AATGATAAAG	TACAATGAAG	GGAGGGCAGA	GGGGCTAAGC	60
CTAGCTGTCT	GGGGTGCTGT	GGTGGTGGA	GACTGGCTAC	ACAACTGTT	GCTGCTGCTG	120
CTGCTTCTTG	GTGGCCGCCT	TGCTGGCGAG	GTCTTGGCC	TTCTCTGTAG	CTGCCAGTGC	180
CGTCTCCTTT	GCCTTCTCCT	TGGCTTCCTT	GGCTGTCTCA	ACAAGTGTTC	TGGAAGGGGC	240
CTCGCCTTGC	AGCTTAGCCA	AGATATATTC	AAAACCCCTC	ATAGTCTTGG	TCACGTTGCT	300
TTTGAACCGG	GCAAGACCAA	ATTCCTGGAC	AGCTCTGGCT	ACACAACTG	TTGCTGGTCA	360
ACGGCCTCTT	TGGCCCTCGA	GACA				384

(2) INFORMATION FOR SEQ ID NO:48:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 546 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

GTGACGGGAC	AAAAATCTAG	GGAGGCACCA	ATCCTGAAAG	AGTTTAAGGA	AGAAGGGGAA	60
GAGATACCTA	GAGTAAACC	AGAGGAGATG	ATGGATGAGA	GACCCAAAAC	AAGATCCCG	120
GAACAGGAGG	TGTTAGAGAG	AGGAGGGAGA	TTTACAAGAT	CCCAGGAAGA	GGCTAGAAAA	180
AGTCATCTGG	CCAGACAGCA	GCAGGAGAAG	GAAATGAAAA	CAACATCTCC	CCTTGAGGAG	240
GAAGAAAGAG	AAATAAAATC	TTCACAAGGC	TAAAGGAAA	AATCGAAGTC	TCCTTCCCCT	300
CCTCGACTGA	CTGAAGATCG	AAAGAAGGCC	CCACTTGTAG	CGCTGCCAGA	GCAAAGTCC	360
AGCGAGGAGG	AGACTCTCTC	ACCTTTACTA	ACAAAGGAAG	CATCTTCTCC	ACCACCTCAT	420
CCACAGCTCC	ATAGCGAAGA	AGAAATAGAG	CCCATGGAAG	GCCCAGCCCC	CCCTGTCTC	480
ATTCAGTTAT	CTCCTCTTAA	TACAGATGCT	GACACCAGGT	CGACGGCCTC	TTTGGCCCTC	540
GAGACA						546

(2) INFORMATION FOR SEQ ID NO:49:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 520 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

GTCGACGTCG	GTGGTGCGAG	CGGCGGCGGC	GGCGGTTCCA	GCATGAAGAG	GAGAGCTGGC	60
CTGGGGGGCA	GCATGAGGTC	AGTGGTGGGC	TTCTTGTCCT	AGCGGGGCTC	GCATGGGGAC	120
CCCCTGCTCA	CTCAGGACTT	TCAGAGGAGA	CRCCTGCGGG	GCTGCAGAAA	CCTCTACAAG	180
AAGGACCTCC	TCGGCCACTT	CGGCTGTGTC	AATGCCATTG	AATTCTCCAA	CAATGGAGGC	240
CAGTGGCTGG	TCTCAGGAGG	AGATGACCGC	CGGGTCTCTG	TATGGCACAT	GGAACAAGCC	300
ATCCACTCCA	GGGTCAAGCC	CATACAGCTG	AAAGGAGAGC	ACCATTCCAA	CATTTTGTG	360

CTGGCTTTCA ACAGTGGGTA CACTAAAGTG TTCTCTGGAG GCAATGATGA GCAAGTTATC	420
CTCCATGATG TTGNAAGCAG TGAGACATTG GACGTGTTTG CTCATGAAGA TGCAGTATAT	480
GACTTGCTG TGGTCNGCGC CCTCTTTGGC CCTCGAGACA	520

## (2) INFORMATION FOR SEQ ID NO:50:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 475 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

GTCGACTCCA GACACACCCC CCAGTCGAGC CCTGCAGCCA AACAGAGCCT TCACAACCAG	60
CCACACAGAG CCTGCCTCAG CTGCTCGCAC AGATTACTTC AGGGCTGGAA AAGTCACACA	120
GACACACAAA ATGTCACAAT CCTGTCCCTC ACTCAACACA AACCCCAAAG CACAGAGAGC	180
CTGCCTCAGT AACTCAAAC AACCTCAAAG CTGCATCATC ACACAATCAC ACACAAGCAC	240
AGCCCTGACA ACCCACACAC CCCAAGGCAC GCACCCACAG CCAGCCTCAG GGCCACAGG	300
GGCACTGTCA ACACAGGGGT GTGCCAGAG GCCTACACAG AAGCAGCGTC AGTACCCTCA	360
GGATCTGAGG TCCCAACACG TGCTCGCTCA CACACACGGC CTGTTAGAAT TCACCTGTGT	420
ATCTCACGCA TATGCACACG CACAGCCCTC AACGGCCTCT TTGGCCCTCG AGACA	475

## (2) INFORMATION FOR SEQ ID NO:51:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 456 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

CCTGCCACAA TAATNTCCNA AGCCTAAAAC CCGAGCAATA CAANCNAACC CAAGCTCGGA	60
AATCGGGCCA AAGAGACCGT TCTTAGNTGG TGGAGCGATT TGTCTGGTTN ATTCCGATAA	120
ACGAACGAGA CTCTGGCATG CTAAGTAGTT ACGCGACCCC CGAGCGGTGCG GCGTCCCCCA	180
ACTTCTTAGA GGGACAAGTG NCGTTCANCC CACCCGAGAT TGAGCAATAA CAGGTCTGTG	240
ATGCCCTTAG ATGTCCGGGG CTGCACGCGC GCTACACTGA CTGGCTCAGC GTGTGCCTAC	300
CCTACGCCGG CAGGCGCGGG TAACCCGTTG AACCCCATTC GTGATGGGGA TCGGGGATTG	360
CAATTATTCC CCATGAACGA GGAATTCCTA GTAAGTGCGG GTCATAAGCT TGCCTTGATT	420
AAGTCCCTGT CGACGGCCTC TTTGGCCCTC GAGACA	456

## (2) INFORMATION FOR SEQ ID NO:52:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 501 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

GTCGCRRC AA SMTYTYTMMA CTGTGGNGGG GCTCTACCCN TGAGGGCCTG GCCGCARCNT	60
--	----

GGCTGSGGGC	TGWC GACTAT	GAACAGRTCG	AGAAMGTGKN	CGATTACTAC	CCGGAGTACA	120
AGCTRCTCTY	CGAGGGTGCA	GGTAGGCAAC	CCTGGAGACA	TGACKCTGGA	GGGMC GATTA	180
CTTTGAGYAC	GAGGTAAARC	TGAACAAGTT	GTSCTTCCTG	ANACAGTWCC	ACCTTGGTGT	240
CTTCTATRCC	TTCGTGAAGC	TCAAGGAGCA	GGAGTGTCKC	AACATCGTGT	GGATCGCTGA	300
ATGTATCTRC	CAACGCMSS	GCRMMYCSMA	MSWCAWCCWY	ATTCTSTRTC	CTKSYAASGT	360
CWCAMTGAAN	CWAGCCCTCT	CAATTGCACT	GCACTGTGTG	TGTGTGTGTG	TGTGTTGTGC	420
GTGTGTGTTG	CGTGTGTGTG	TATGTGGTCT	GTGACAAGCC	TGTGGCTCAC	CTGGTCGACG	480
GCCTCTTTGG	CCCTCGAGAC	A				501

## (2) INFORMATION FOR SEQ ID NO:53:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 579 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

CCNCCGTTTG	TTGTNNTGCA	CCAAANANCC	NCNAATTGNC	CANANAAAAT	TGATGGGAAG	60
ACCACTTAAA	GGGGGGGNAN	TTAGGCGGGN	CAAAGACAAG	GCACCCNACA	AGATGTCGTT	120
TGTTCCAGAG	CTGATTGAGG	GGTATCTCGG	AAGNAACACN	GAAACTTTTT	TCCTTCCTTC	180
AATTCACAGC	ACACTACTCT	CTAATGAGCN	NCGGAATACG	GCCTTCCTTC	CAGTTACTTG	240
AATNTGAAAT	AAAAAAAAGT	TTGCTGTCTT	GCTATCCAAG	TATAAATAGA	CCTGCAATTA	300
TTAATCTTTT	GTTTCCTCGT	CATGTTCTC	GTTCCCTTTC	TTCCTTGTTT	CTTTTCTGC	360
ACAATATTTT	AAGCTATACC	AAGCATACAA	TCAACTCCAA	GCTCGGAATT	CGGCCAAAGA	420
GGCCGTCGAC	GAACCACCGG	CTGAAAATTG	GCTTCTTCAA	CCAGCAGTAT	GCAGAGCAGC	480
TGCGCATGGA	GGAGACGCCC	ACTGAGTACC	TGCAGCGGGG	CTTCAACCTG	CCCTACCAGG	540
ATGCCCGCAA	GTGCCTGGGC	CGCTTTGGCC	CTCGAGACA			579

## (2) INFORMATION FOR SEQ ID NO:54:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 549 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

CTGCNCCAA	NANTTCCNAA	CCNAATAACC	CAANAANACC	AATCCNNNCT	CCANCTGGGG	60
AATTCGGNCC	NAAGAGACCG	TTGTNTTGAT	GACAAGTCGA	AGCCAANAAT	ACCATNCAAC	120
CTGCTCCCAA	TCATGCAGGN	TNCNGCCACT	GCTGCCCTTG	CCGTCCCTCC	TCTGCACCAT	180
GGCTNCTCCT	GCAACCAGGT	CCTCTCTGCA	CCACTTGCTG	CTGANACGCC	GACCGCCTGC	240
TGCTTCAGCT	ACACCTCCCG	ACAGATTCCA	CAGAATTICA	TAGCTGACTA	CTTTGAGACG	300
AGCAGCCAGT	ACTCCAAGCC	CAGTGTATC	TTCCTAACCA	AGAGAGGCCG	GCAGGTCTGT	360
NNTGACCCCA	GTGAGGAGTG	GGTCCAGAAA	TACGTCACTG	ACCTGGAGCT	GAGTGCCAGA	420
GGGGTCCAGA	AGCTTCGAGG	CCCAGCGACC	TCACTGGGCC	CAGTGGGGAG	GAGCAGGAGC	480
CTGANCCCTTG	GGAACATGCG	TGTGACCTCT	ACAGTACCTT	CGTCGACGGC	CTCTTTGGCC	540
CTCGAGACA						549

## (2) INFORMATION FOR SEQ ID NO:55:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 461 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

```

GTCGACCTCC CAGGTCATTA GGAAGCTGGT CATGGAACCC ACCTTCAAGC CCTGGCAGAT    60
GAAGACTCAC TTCCTGATGC CTTTCCCGGT GAATTACGTG GGTGAATGCA TCGAACTGT    120
CCCCACACG GACCCAGATC ATGCCAGTCT TAAATCCTT GCACGTTTGA TGAAGTCAA    180
ATTCTTGCAT ACAGAAATTC GTGAAAAAGG CGGTGCTTAT GGTGGAGGCG CAAAACCTCAG    240
CCACAATGGG ATTTTCACCC TTTACTCTTA CAGGGACCCA AATACAATAG AGACGCTCCA    300
GTCTTTTGGG AAGGCTGTCG ACTGGGCTAA GTCTGGAAAA TTCACACAGC AAGACATCGA    360
CGAAGCCAAA CTTTCTGTCT TCTCAACCGT AGATGCTCCT GTCGCTCCTT CAGACAAAGG    420
AATGGACCAC TTCTGTACG GCCTCTTGG CCCTCGAGAC A                    461

```

(2) INFORMATION FOR SEQ ID NO:56:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 511 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

```

GTCGACAATA ATTCCACCTC ACCAGGATAA TACCCATCCT TCAGCACCAA TGCCTCCACC    60
TTCTGTTGTG ATACTGAATT CAACTCTAAT ACACAGCAAC AGAAAATCAA AACCTGAGTG    120
GTCACGTGAT AGTCATAACC CTAGCACTGT ACTGGCAAGC CAGGCCAGTG GTCAGCCAAA    180
CAAGATGCAG ACTTTGACAC AGGACCAGTC TCAAGCCAAA CTGGAAGACT TCTTTGTCTA    240
CCCAGCTGAA CAGCCCCAGA TTGGAGAAGT TGAAGAGTCA AACCCATCTG CAAAGGAAGA    300
CAGTAACCCT AATTCTAGTG GAGAAGATGC TTTCAAAGAA ATCTTTCAAT CCAATTACCC    360
GGAAGAATCT GAATTCGCCG TGCAAGCGCC TGGGTCTCCC CTAGTGGCTT CCTCTTTATT    420
AGCTCCTAGC AGTGGCCTTT CAGTTCAAAC TTCCCACCAG GGCTTTACTG CAAAACAAGC    480
ACGGTCAACG GCCTCTTGG CCCTCGAGAC A                    511

```

(2) INFORMATION FOR SEQ ID NO:57:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 483 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

```

GTCGACAGTC CAAAGTCTCA AGACAGTTAT CTTGTTAGTC CTCGACCTTT TAGTAGTCCA    60
AGTATGAGCC CCAGCCATGG AATGAATATC CACAATTTAG CATCAGGCAA AGGAAGCACC    120
GCACATTTTT CAGGTTTTGA AAGTTGTAGT AATGGTGTA TATCAAATAA AGCACATCAA    180
TCATATTGCC ATAGTAATAA ACACCACTCA TCCAAGTGA ATGTACCAGA ACTAAACAGT    240
ATAAATATGT CAAGATCACA GCAAGTTAAT AACTTCACCA GTAATGATGT AGACATGGAA    300
ACAGATCACT ACTCCAATGG AGTTGGAGAA ACTTCATCCA ATGGTTTCCT AAATGGTAGC    360
TCTAAACATG ACCACGAAAT GGAAGATTGT GACACCGAAA TGGAAGTTGA TTCAAGTCAG    420
TTGAGACGCC AGTTGTGTGG AGGAAGTCAG GCCGCGTCTA GGCCTCTTT GGCCCTCGAG    480
ACA                    483

```

## (2) INFORMATION FOR SEQ ID NO:58:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 522 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

```

GTCGACGAGG TGGTGATCAT GGAAGACGCC CCTGACTATT ATGCAGTGGA AGACATTTTC      60
AGCGAGATCT CAGACATTGA TGAGACAATT CATGACATCA AGATCTCTGA CTCATGGAG      120
ACCACCGACT ACTTCGAGAC CACTGACAAT GAGATAACTG ACATCAATGA GAACATCTGC      180
GACACGGAGA ATCCTGACCA CAATGAGGTC CCCAACACG AGACCACTGA TAACAACGAG      240
AGTGCTGATG ACCACGAAAC CACTGACAAC AATGAGAGTG CAGATGACAA CAACGAGAAT      300
CCTGAAGACA ATAACAAGAA CACTGATGAC AACGAAGAGA ACCCTAACAA CAACGAGAAC      360
ACTTACGGCA ACAACTTCTT CAAAGGTGGC TTCTGGGGCA GCCATGGCAA CAACGAGGAC      420
AGCAGCGACA GTGACAATGA AGCAGATGAG GCCAGTGATG ATGAAGATAA TGATGGCAAC      480
GAAGGTGACA ATGAGGTCAC GGCCTCTTTG GCCCTCGAGA CA                      522

```

## (2) INFORMATION FOR SEQ ID NO:59:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 533 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

```

GTCGACAGAT CATGTTGGAA GAGCCCCCAG TAGCAAAAGT GTTAGAGCCT TCAGAAACCC      60
TTGTGGTATC ATCAGAGACA CCTACTGAGG TGTACCCTGA GCCAAGCACA TCAACAACAA      120
TGGATTTTCC AGAGTCATCT GCAATTGAAG CGCTAAGATT GCCAGAGCAG CCTGTAGACG      180
TACCATCGGA GATTGCAGAT TCATCCATGA CAAGACCGCA GGAGTTGCCG GAGCTGCCTA      240
AGACCACAGC GTTGAGCTG CAGGAGTCGT CGGTGGCCTC AGCGATGGAG TTGCCGGGGC      300
CACCTGCGAC CTCCATGCCG GAGTTGCAGG GGCCCCCTGT GACTCCAGTG CTGGAGTTAC      360
CTGGGGCCCTC TGCTACCCCG GTGCCAGAGT TGCCAGGGCC CCTTCTACC CCAGTGCCTG      420
AGTTGCCAGG GCCCCCTGCG ACAGCAGTGC CTGAGTTGCC AGGGCCCTCT GTGACACCAG      480
TGCCACAGTT GTCGAGGAA TTGCCGTCAA CGGCCTCTTT GGCCCTCGAG ACA                      533

```

## (2) INFORMATION FOR SEQ ID NO:60:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:

```

CCACCAGACA TAAAGTACTG ACATGATCAG AGGAATCATC AGCAACTGCA TNTCCATTGC      60
TAAGCCAGTA ATCAGGATGC AAATCCAGTT AAAGAGGAGC ATGAATAAAT AGTCTGCTGG      120
CCTCCCATCA AAAGCTCCTG TTTCAAGTCG CGTAGAATAC TGATATAAGA AATATANATT      180

```

GACCAAATAA AGAAATCCAG TTCCTGGACC CACAGGGAAA TAAAAGGTGG CAGTGATTGN	240
CCTCCAAATC TGAAAGCGAT ANAGGAAGGC TTCGGGCCAG AGGAAGAGGT AGGCCGGGCT	300
GATGAGGCCG AGTTTGCCGA CCAAGGGCAC GNGACGGTG GCGGCGAACC AATAGCGCGT	360
GATCGCCGGG ATGCTCCTGA ACCAGTCTCC GATGTCCGAC ATCTTCGACC CACAGGTAGC	420
CAAGATGCAC AAGACCGCCC GACTCCCCGC GCCGACCCC TCACGACGCG GCCGGCTCCG	480
CGACTGTAG GTGTCTAGGT GGAAGCCGCG TCGAC	515

## (2) INFORMATION FOR SEQ ID NO:61:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 357 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

ATNCNGGAGN CCCAGATGCT GTGGGCCATG ATCGCANNTT GNNTGAGAGA ATTGGCAGAA	60
NCAGANTACT CCTAGCNAGA NCAGTATTNT GTGTNACTCT GGAGAATTNC AGTGATGNAA	120
AAAAANAGAC CNGTNCAAGT AAGTCCAGCG AAAAGCATGC CCACATGGAT GAANTGGATG	180
ATGAAGATGA TGCCNNCCNT GNGGNCAGCA GGAACCTCTN TNNTGCGNG NCNACTCNTG	240
NTGNTGTAGA TGANGCTGGT NAAGCNANC AGTCTGNTGA GNCTCCTCGA GTCTGATGGA	300
TCTNATGAGC AGANCGNTGA TTCGTCNGCC GCCGTNCTCC TTNGAGCCCN CNAGACA	357

## (2) INFORMATION FOR SEQ ID NO:62:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

CTTGTAGATG GAGCGGGGAG NCAGACTNCT GGGNGCTGCG TGANTGCTGA CGTGAGATGG	60
ATTAATTAAT GGCNAGCAAG NATGGNGNCT NCGAGCCCCT CCCTGNNCGT NCCTNCCAGN	120
NGTGGCAATN GCGTACGTGG NCAGACTTCA GGNAGAAAAA AAAAAAANGG GNCNCGTAAG	180
CTGTGCGGG NNCAGCAGCT TGAGACTGNC AAGTGACTCA GATGCAGAGT CAGACTNTCG	240
GGCTAGCTCT AACAACTCCN CCGTCTCCAA CACCAGCACC GAGGGCTTCG GGGACATCAT	300
GTCTTTGACC AGCAGCCTCT ATCGGAACCA CAGTACCAGC TTCAGTCTTT CAAACCTCAC	360
ACTNCCGTCG NCGGCCTCNT TGGCCTTNG AGGCGA	396

## (2) INFORMATION FOR SEQ ID NO:63:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 433 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

GTCGACCCCA GATGAAATGT CATGGCAAAT TTGATAAAAA CCAAGAGGGA GTGAAACTGA	60
---	----

CGCTGGGGGA	GGGAAGGTC	AAGTCGAGGG	AAGGTGAAAC	CAAAGGCAC	TGAGCATGCG	120
TGGTGGGGCA	GGGAAGGACA	CCATCACTCC	AGAGACAGTA	TGGTAACAAA	GGGACAGGAA	180
TGGTCCAGGC	CAGCTTCAGG	CTCTTCAGAA	GCCAGAGAGA	TGTCCAAGTC	TACCAAACCG	240
AGTTCTCCAA	GGCTTTTCAA	GAAATGGGAT	TTGCTTGCAA	GATGAATGAG	GGAGGAGGTC	300
CCATGGCTTC	TAAGAGATCA	ACCCAAGTCT	TCCAATACTC	ACTGCTAAGT	CCCACTGGG	360
TCCCCCAGAG	CCAGGAAGCT	CCCTGGTGGC	AGGTCCCCCT	CTTGCCCTCA	CGGCCTCTTT	420
GGCCCTCGAG	ACA					433

## (2) INFORMATION FOR SEQ ID NO:64:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 452 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

GTCGACAAA	TAGTTCTGTT	AAAGAATACC	GAATGGAAGT	TCCATCTTCG	TTTTCAGAAG	60
ACATGTCAAA	TATCAGGTCA	CAGCATGCAG	AAGAACAGTC	CAACAATGGT	AGATATGACG	120
ATTGTAAAGA	ATTTAAGAC	CTCCACTGTT	CCAAGGATTC	TACCCTAGCT	GAGGAAGAAT	180
CTGGGTTCCC	TTCTACTTCT	ATCTCTGCAG	TTCTGTCTGA	CTTAGCTGAC	TTGAGAAGCT	240
GTGATGGCCA	AGCTTTGCCC	TCCCAGGACC	CTGAGGTTGC	TTTATCTCTC	AGTTGTGGCC	300
GTTCCAGAGG	ACTCTTTAGT	CATATGCAGC	AACATGACAT	TTTAGATACC	CTGTGTAGGA	360
CCATTGAATC	TACAATCCAT	GTCGTCACAA	GGATATCTGG	CAAAGGAAAC	CAAGCTGCTT	420
CTTGGTCAAC	GGCCTCTTTG	GCCCTCGAGA	CA			452

## (2) INFORMATION FOR SEQ ID NO:65:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 401 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

CTNAAANTTA	CCATCAGCT	TNCTACAATC	GGCTCTTTCC	AATTTGGCNA	CAACNCTGGG	60
TCATCAATGC	TCCTGAGAAG	ATCATAAAGG	AATTTATCAA	TAAAACCTTG	TCGGACAAGG	120
GAAATNCCCC	ACCCTCTGAG	GTGCTGCTCA	CGTCTCTCTG	GTCTCTGTCT	GTGACCATAT	180
TTTCCGTCGG	GGGNATGATC	GGCTCCTTTT	CCGTCGGACT	CTTCGTCAAC	CGCTTTGGCA	240
GGCGCAANNC	AATGCTGATT	GTCAACCTGT	TGGCTGTCAC	TGGTGGCTGC	TTTATGGGAC	300
TGTGTAAAGT	AGCTAAGTCG	GTTGAAATGC	TGATCCTGGG	TCGCTTGTTT	ATTGGCCTCT	360
TCTGCGGACT	CTGTCGACG	GCCTCTTTGG	CCCTCGAGAC	A		401

## (2) INFORMATION FOR SEQ ID NO:66:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 558 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

GTTGAGAGCA	GCATGTTTTN	NCCACTGAAA	CTCATCCTGC	TGCCAGTGTT	ACTGGATTAT	60
TCCTTGGGCC	TGAATGACTT	GAATGTTTCC	CCGCCTGAGC	TAACAGTCCA	TGTGGGTGAT	120
TCAACTCTGA	TGGGATGTGT	TTTCCAGAGC	ACAGAAGACA	AATGTATATT	CAAGATAGAC	180
TGGACTCTGT	CACCAGGAGA	GCACGCCAAG	GACGAATATG	TGCTATACTA	TTACTCCAAT	240
CTCAGTGTGC	CTATTGGGCG	CTTCCAGAAC	CGCGTACACT	TGATGGGGGA	CATCTTATGC	300
AATGATGGCT	CTCTCCTGCT	CCAAGATGTG	CAAGAGGCTG	ACCAGGGAAC	CTATATCTGT	360
GAAATCCGCC	TCAAAGGGGA	GAGCCAGGTG	TTCAAGAAGG	CGGTGGTACC	GCATGTGCTT	420
CCAGAGGAGC	CCAAAGAGCT	CATGGTCCAT	GTGGGTGGAT	TGATTCAGAT	GGGATGTGTT	480
TTCCAGAGCA	CAGAAGTGAA	ACACGTGACC	AAGGTAGAAT	GGATATTTTC	GTCGACGGCC	540
TCTTTGGCCC	TCGAGACA					558

## (2) INFORMATION FOR SEQ ID NO:67:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 539 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

GTGGAGAAAA	TTGCTGCTGA	GAAGGACATT	TTGAAGGTTT	TGTGGCTGA	AAAAGCTGTT	60
TCTGGAATCA	CCCCTAGATC	TTTCTTGAAG	ACTTGAATTA	GATTACAGCG	ATGGGGACAC	120
AGAAGGTCAC	CCCAGCTCTG	ATATTTGCCA	TCACAGTTGC	TACAATCGGC	TCTTTCCAAT	180
TTGGCTACAA	CACCTGGGGTC	ATCAATGCTC	CTGAGAAGAT	CATAAAGGAA	TTTATCAATA	240
AAACTTTGAC	GGACAAGGGA	AATGCCCCAC	CCTCTGAGGT	GCTGCTCAGC	TCTCTCTGGT	300
CCTTGCTCTG	GGCCATATTT	TCCGTCGGGG	GTATGATCGG	CTCCTTTTCC	GTCGGACTCT	360
TCGTCAACCG	CTTTGGCAGG	CGCAANTCAA	TGCTGATTGT	CAACCTGTTG	GCTGTCACTG	420
GTGACTGCTT	TATGGGACTG	TGTAAAGTAG	CTAAGTCGGT	TGAAATGCTG	ATCCTGGGTC	480
GCTTGTTTAT	TGGCCTCTTC	TGCGGACTCT	GGTCGACGGC	CTCTTTGGCC	CTCGAGACA	539

## (2) INFORMATION FOR SEQ ID NO:68:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

GTTGACCCCA	TTTTCCACCA	CCAAGCAAGC	AGAGCCTGTT	GTTTTGTCCA	AAATCAAAAC	60
TGCACATCCA	CAGAGCAGAG	ATCTCAAAGA	TTATGCGAGA	ATGTCAGGAA	GAAAGTTTCT	120
GGAGAGAGC	TCTGCCTTTT	TCTTTGTAA	GCATGCTTGT	CACCCAGGGA	CTAGTCTACC	180
AAGGTTATTT	GGCAGCTAAT	TCTAGATTG	GACCATTGCC	CAAAGTTGCA	CTTGCTGGTC	240
TCTTGGGATT	TGGCCTTGGA	AAGGTATCAT	ACATAGGAGT	ATGCCAGAGT	AAATTCCATT	300
TTTTTGAAGA	TCAGCTCCGT	GGGGCTGGTT	TTGGTCCGTC	GACGGCCTCT	TTGGCCCTCG	360
AGACA						365

## (2) INFORMATION FOR SEQ ID NO:69:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double



(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

```

GTCGACCTCG GTAAATGCCT CAGTTCCCTT CCCAGATGGA GGCATCGTTG TGAGAGTCTG      60
ATTGGGAGGG GAATATGAAA ATGTTTTCGG AAGATAAAAG TACTACACAG ATGTGAGGTG      120
GTTTTGCCTT GGAAGAAAGT GTCCTTAGA TGTGTCTGGA TGTATGCAG AGTGATCGTG      180
GCGTGTCAAT CTTTCTTTTG GGTGTTTTC AGCCTGAGAC ATAAGGTAAT TGTCAGAAAA      240
GGGAGACGTA GAAGTGTGGA TCTGTGGAAG CTCACTCTTA ACAAGAATTC TAAGATGCAC      300
ATTTAAGTAC TTGCCATGAC GTGAGGTGTT GTCACACGTC AACCTGAGA TGCTGTCACT      360
GTCCAGGGG ACTTGACATT TATGTTACCC AGGAATGACT GTGTAAATGT GCAGGTGCAG      420
GCCGGGCGCC GTGGCTCAGT GCCTGTAATC CCAGCACTTT GGGAGCCCCG TCGACGGCCT      480
CTTTGGCCCT CGAGACA                                     497

```

(2) INFORMATION FOR SEQ ID NO:70:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

```

GTAGACANCA NTAGAAAAC AAAAATCTCA TAATGCAAAA GCATCAAGTG TTTGACTCTG      60
AGAAGCGCCT TGTATGCCCA GTTACTCTCG TTCTCCCTCA GCTCTTGCTT GTGCTTCTCC      120
ACCTGCCATT CCACTTTGGC CTGGTACTGC CTGTAGTCTT CCTGGCAGGC CCCAGCTCCA      180
GTTCTTTTGA GCAGCTGGGC ATCCAAGAAG AGGTCAATGC TGTGGAAGGA GCCTCTCGC      240
TCCCTCCCCA GCCTCTCAAT CACAGCCAGG AGCTCTGCCT GCTGCTGCCT CTGCTCCTCC      300
ACAGAGCCCC AGTTGTTGAA GGCACAGTAC CTTCTCTCAC ACTCCCGCGC CAGGTCTTTC      360
AGGCTGCAGT TGTCCGTGTT TGCTACATAG TCATCCAGGG CCTGGCCCCG TCGACGGCCT      420
CTTTGGCCCT CGAGACA                                     437

```

(2) INFORMATION FOR SEQ ID NO:71:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

```

CCTGCNCNAA ANNANTCCAA GCNAANNCCC AAACAATCCC AATNCCNACC CCAAGCTNNG      60
GAGTTCGGCC CAAAAGAGGC CCNCGAACG TAGATTNCAG TGAGCCAAGA TCGTNCCACT      120
GCACNCCAAG CCNGGGCANC CAAGAGCGAA ACTCCGTCNC CNCNNANAA AGAGAAAATT      180
AGCCGGGCGT GGTGGCGTTA ATCCCANCTA CTTGTGAGGN TAAGGGAGGA GAATTGCTTG      240
AACCCAGGAG GCAGAGGTTG CAGTGAGCTG AGATCACGCC ATTGCACTCC AGCCTGGGCC      300
ACAAGAGCAA GACTCCATCT CCCAAAAAAA AAAAAAATAG CGTCAGAAAA ATGTCCTTGT      360
ATGCCATTTT CTCCATTTTA TTGACATTTT GCCCGACTTT TGTCTTTGTT TCAGGGAAAT      420
CGTGGAACAC ATGGTCCAGC ACTTTAAAC ACAGATCTTT GGGGATCGGA AGCCCGTGT      480
TGACGGCAGG GTCAACGGCC TCTTTGNCCC TCGAGACA                                     518

```

## (2) INFORMATION FOR SEQ ID NO:72:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 481 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

```

AAACCAAAAC TCATGTTGCT TGNCCCCCA TCGTCGTCTC AAGTGNGGGC GANNACTTTC      60
CTGGTTGGAG CCCTCCGTCC NAACNNCTAA CACAATGTTT TTTCNCAAAC GTTCTACNAA      120
CGCCTGCGAC NAGNCCAGGG AGGGGGTGCT GTGNATCCTC AGCNACGACA CGCTGCAGTA      180
CTGCGACTTC TTGGGCTCCG GGGCGGCCAT CTGGGTCACC ATNCTGTGNA TGGCACGGCT      240
CAAGACAGTC CTGAAATACG TGCTGTTTCT TCTGGGTACA CTGGTCATCT CCATGTCCTT      300
GCAGCTGGAC CGCAGGGGCA TGTGGAACAT NCTGGGGCCC TCCCTCTTTG CCTTCGTGAT      360
CATGGCCTCC ATGTGGGCTT ACCGCTGCGG GCACCGGCGC CAGTGCTACC CCACCTCGTG      420
GCAGCGCTGG GCCTTCTACC TCCTGCCCGG CGTCTCTACG GCCTCTTTGN CCCTCGAGAC      480
A                                                                                   481

```

## (2) INFORMATION FOR SEQ ID NO:73:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 513 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

```

GACCTCCAN TAATAANCCT TTTGTTTCCC TCGTCNNTGT TNGTCCGTTT CCCTTTCCTN      60
CCCTTGTTTC NNTNTCCTGC ACCAATATTT CCAANCTAAT ACCCAAGCAA NACAATCCNA      120
ACTCCAAGCT CGGGAATTCG GCCCAAAGAG ACCGTAGGCC GAAACCCACC GGANGGAACC      180
ATCTCACTGT GTGTAAACAT GACTNCCAAG CTGNCCGTGG CTCTCTTGGC AGCCTTCCTG      240
ATTTCTGCAG CTCTGTGTGA AGGTGCAGTT TTNCCAAGGA GTGCTAAAGA ACTTAGATGT      300
CAGTGCATAA AGACATACTC CAAACCTTTC CACCCCAAAT TTATCAAAGA ACTGAGAGTG      360
ATTGAGAGTG GACCACTACT CGCCAACACA GAAATTATTG TAAAGCTTTC TGATGGAAGA      420
GAGCTCTGTC TGGACCCCAA GGAAGAACTGG GTGCAGAGGG TTGTGGAGAA GTTTNTGAAG      480
AGGGCGTCGA CGGCCTCTTT GGCCCTCGAG ACA                                       513

```

## (2) INFORMATION FOR SEQ ID NO:74:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 519 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

```

CAANTAATAA ANCTTTTGTT TCCCTCGNCA TTGTNNTCGT TCCCTGTGCC NGCCTTGTTT      60
CCNNNGTCCT GCACCAATAT TTCCAAACCN AATACCCAAG CATACAATCC NNACTCCAAG      120
CTNGGAATTC GCCCANAGAG ACCGTCGNGG GAAGAAATTG NCTGGAAACT TGTTTCATGGT      180

```

GATATATACC	GTCCTCCAAG	AAANGGGATG	CTGCTATCAG	TCTTTCTAGG	AGCCGGGANA	240
CAGATATTAA	TTATGACCTT	TGTGACTCTA	TTTTTCGCTT	GCCTGGGAGT	TTTGTACCT	300
CCCANCCGAG	GAGCGCTGAT	GACGTGTGCT	GTGGTCCTGT	GGGTGCTGCT	GGGCACCCCT	360
GCAGGCTATG	TTNCTGCCAG	ATTCTATAAG	TCCTTTGGAG	GTGAGAAGTG	GAACAAAT	420
GTTTTATTAA	CATCATTCT	TTGTCCTGGG	ATTGTATTG	CTGACTTCTT	TATAATGAAT	480
CTGATCCTCT	GGTCAACGGC	CTCTTGGCC	CTCGAGACA			519

## (2) INFORMATION FOR SEQ ID NO:75:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 506 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

CGGGCCCAA	GACANGCANN	CCNACAAGAT	GTGCTTGTTT	CAAGAAGCTG	ATNGAGGGGT	60
ATCTCGGAAG	CACACGGAAA	CTTTTTCCTT	CCTTCAATTC	NACGCACACT	AACTCTCTAA	120
TGAGCAANCG	GTATACGGCC	TTCTTCCAG	TTACTTGNAT	GTGAAATAAA	AAAAAGTTG	180
CTGCTCTGCT	ATCAAGTATA	AATAGACCTN	CAATTATTAA	TCTTTTGTTT	CCTCGTCATT	240
GTTCTCGTTC	CCTTTCCTCC	TTGTTTCTTT	TTCTGCACAA	TATNTCAAGC	TATACCAAGC	300
ATACAATCAA	CTCCAAGCTC	GGAATTCGGC	CNAAGAGGCC	GTGACCGTT	CGTTATCGGA	360
ATTAACCAGA	CAAATCGCTC	CACCAACTAA	GAGCGNCCAT	GCACCACCAC	CCACGGAATC	420
GAGAAAGAGC	TATCAATCTG	TTGAAGAACA	TGCCCGGCTT	CTTGTCATC	ATCATGGTGT	480
ACACGNCCTC	TTGNCCCTC	GAGACA				506

## (2) INFORMATION FOR SEQ ID NO:76:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 500 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

TTCTTTGTTT	CCTTTTTCCT	NCCCCAATAT	TTCCAAGCTA	ATACCCAAGC	AATACAATCC	60
NACTCCAANC	TCGGGAATTC	GGCCACAGA	GACCGNTGAC	CNTGTAAATG	AGTGAGGCAG	120
GAGTCCCGNG	GAGGTAGT	GTGTCAATAA	AAATGATTAA	GGATACTAGT	ATAAGAGATC	180
AGGNTCGTCC	TNTAGTGTG	TGTATGGNTA	TCATTTGTTT	TGAGGNTAGT	TTGATTAGTC	240
ATTGTTGGGT	GGTGATTAGT	CGGTGTTGA	TGAGATATNT	GGAGGTGGGG	ATCAATAGAG	300
GGGGANATAG	AATGATCAGT	ACTCCGNCAG	GTAGGCCTAG	GATTGTGGGG	GCAATGAATG	360
AAGCGAACAG	ATTTTCGTTT	ATTTTGTTT	TCAGGGTTTG	TTATAATTTT	TTATTTTAT	420
GGNCTTTGGT	GAGGGAGGTA	GGTGGTAGTT	TGTGTTTAAT	ACAAAAAGTT	GGGTGCACGN	480
CCTCTTTGNC	CCTCGAGACA					500

## (2) INFORMATION FOR SEQ ID NO:77:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 581 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

AACCGGATTC	GGNCCNAAAG	AGACCGGTTG	CCCCAAACTT	TCTGCTGAGA	AGGACATTTT	60
GGAGGGGNTT	TGTTGGGCTG	AAAAAAGCT	GTTTCCTGGG	AATNNAACCC	CCNAGANCTT	120
TCTTGAAGAC	NTTGAATTAA	GATTACCAAN	CGATGGGGGA	CACAGGAAGG	TCCACCCCCA	180
NGCTCTGATA	TNTGCCATCA	CAGTTGCTAC	AATCAGCTCT	TTCCAATTTG	GCTACCAACA	240
CTGGGGTCAT	CAATGCTCCT	GAGAAGATCA	TAAAGGAATT	TATCAATAAA	ACTTTGACGG	300
ACAAGGAAAA	TGCCCCACCC	TCTGAGGTGC	TGCTCACGTC	TCTCTGGTCC	TTGTCTGTGG	360
CCATATNTTC	CGTCGGGGGN	ATGATCGGCT	CCTTTTCCGT	CGGACTCTTC	GTCAACCGCT	420
TTGGCAGGCG	CAATTCAATG	CTGATTGTCA	ACCTGTTGGC	TGTCAGTGGT	GGCTGCTTTA	480
TGGGACTGTG	TAAAGTAGCT	AAGTCGGTTC	AAATGCTGAT	CCTGGGTCGC	TTGGTTATTG	540
ACCTCTTCTG	CGGGTCGACG	ACCTCTTTGG	CCCTCGAGAC	A		581

## (2) INFORMATION FOR SEQ ID NO:78:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

GTCAACCTGG	GAGGCTCTCC	CCCACCTTCT	TTCAATCTCT	TCTCAAATCT	TGCATCCTCA	60
GAGGGGGCCT	GCCTGATTGG	CCTTCTTAAA	ATGGATCTGC	CCCACCCAC	TTTGTAATTTG	120
CTGTGCCCTC	TGCTTTCAGG	CGTGTCTCA	AACAGGATCT	CAACAAGGCC	TCCCTTGACC	180
ACACTTTAAA	ACTGCATGCC	CTATATATAC	CCCATCTCTC	TTATTTTAT	TTGTCTCCCT	240
AATGCTTATC	CCCAGTATAC	TCTGTTTATT	GTCTGTCTCT	CCTCACTACA	AAATAAATCT	300
CCAAGGCCT	AGAGTTTCTT	CTGTCTTGTC	CCTGCTATAT	ACCAGTGCTT	AGAACAGCGC	360
CCTGCACAGA	ATAGAGGCC	AATTCAATAT	GGATTGCTA	CCACTACATC	CTATTTGTTT	420
CCTTCCCATC	ACTTTTCGAA	CATCATCTA	TTCAGCTCTG	CTGACCTGTT	TCACATCTGG	480
ATCTGTATA	GCAACGTCGA	CGGCCTCTT	GGCCCTCGAG	ACA		523

## (2) INFORMATION FOR SEQ ID NO:79:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

GTNGACTGAT	ACTCGAGTAC	CTGGATCAGC	GGCTGAAAGC	TGCAGAGAAC	AAGTTTGCCA	60
AGTGCCCTCAT	GACCTGTCTC	AAATGCTGCT	TCTGGTGCCT	GGAGAAGTTC	ATCAAATTCC	120
TTAATAGGAA	TGCCTACATC	ATGATTGCCA	TCTACGGCAC	CAATTTCTGC	ACCTCGGCCA	180
GGAATGCCTT	CTTCCTGCTC	ATGAGAAACA	TCATCAGAGT	GGCTGTCTCTG	GATAAAGTTA	240
CTGACTTCCT	CTTCCTGTTG	GGCAAATTC	TGATCGTTGG	TAGTGTGGGG	ATCCTGGCTT	300
TCTTCTTCTT	CACCCACCGT	ATCAGGATCG	TGCAGGATAC	AGCACCACCC	CTCAATTATT	360
ACTGGGTTCC	TATACTGACG	GTGATCGTTG	GCTCCTACTT	GATTGCGTGC	ACGGCCTCTT	420
TGGCCCTCGA	GACA					434

## (2) INFORMATION FOR SEQ ID NO:80:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 573 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

```
GAGGCCCTC AANTTCTGCC ATTTTATTTT ATTTTTTTGA NCTGGAGTNT TGCTCTGTAT    60
CCCAGGCTGG AGTGCAGTGG CGCAATCTCG GCTCACTGCA AGNTCCTCCT CCCGGGTTCA    120
CGCACATTCT CCTGCTTCAG CCTCCCTAGT AGCTGGGACT ACAGGAGCCC GCCACCACGN    180
CTTGTTAATT TTTTTGTAT TTTTAGTAGA GACAGNNTT CACTNNTTA GTCAGGATGG    240
TCTCATNTT CTGANGTCAT GATCCGCCCA CCTCGGCCTC CCAAAGTGCT GGGAKTACAG    300
GMGCGARCCA CCGCGCCCGG CCTATTTTTT GGKGGTTTNA WWTCTGGGTG ACTTGTGAGC    360
AGGAAGTTT TGTTKTTTTT TTTCCANTGA AAAGATCTGG CCANAATAGT GGGNNTGTCA    420
AAGTATCTCT TTGCAGNTTT AATTGTCATT TTCCANTGA CTAAGATGAT GTTGTGCAAT    480
TTTTTCAGAN ACTGNTGCT ATCTGTATAT CATCTCTTT TTTTTTTTC TTTTGAAGT    540
GGATCCGGTN CGNCTCTTT GCCCTCGAG ACA                                573
```

(2) INFORMATION FOR SEQ ID NO:81:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 468 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

```
GAANCCCCAT CCACTTCNCG GGAGGGGGGA GAGCGCGGNG ACGGGTCTCG CTCCTCGGC    60
CCCGGGATTG GCGGGGTGCA GNTGCCGGAT CCTTCAGCGT CTGNATCTCG GCGTCGCCCC    120
GCGTACCGTC GCCCGGCTCT CCGCGCTCT CCGGGGGT CCGGGCACTT GGGTCCCACA    180
GTCTGGTCCT GCTTCACCTT CCCCTGACCT GAGTAGTCRC CATGGCAGAG GTTCTCAGAG    240
GCACTGTGAC TGACTTCCCT GGATTGATG AGCGGGCTGA TGCAGAACT CTTCCGAAGG    300
CTATGAAAGG CTGGGGCACA GATGAGGAGA GCATCCTGAC TCTGTTGACA TCCCGAAGTA    360
ATGCTCAGCG CCAGGAAATC TCTGCAGCTT TTAAGACTCT GTTGTGCAGG GATCTTCTGG    420
ATGACCTGCG GAAGTGGATC CGTTTCGGCC TCTTGGCCC TCGAGACA                468
```

(2) INFORMATION FOR SEQ ID NO:82:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 462 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

```
GAACCGGATC CACTTCCGGG AAAACCTCGG ATTAGCAAGC AATAAAAACA TGACCTCACT    60
CTTCCTCAAA GGAGCCCCTG GTCTCCCTG TGTGACTCAG TTCTTCCAT CTGTTTGTCC    120
CGCTGCAAGC CTCTTCTGCT GCTGACTGTG ACATCGGAAC GTGGCCTTCC TGTCACCCCC    180
TCCGTGCCAC GCACTGAAGG CCACCCCCC CCACCTGGGA AACTAAGAAG TGGATATTTT    240
GCCTCATTCA CTTGTACTGT AACAATGTAT ATAATTGGT TGGTATTTCA CTATTTAATT    300
TTTAAGAAGC CTATTTTACT AGTGTTTAT ATGAACAAAG TACTGCAGAA GTTAAACCTG    360
```

TGTTGTATTT TTTCTGAGAT GTTTTGCTTT AAGAGATACT TTTTGCTCAG TTTTATATG 420  
 CCAGGAAGTG GATCCGGTTC GGCCTCTTTG GCCCTCGAGA CA 462

## (2) INFORMATION FOR SEQ ID NO:83:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 498 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

GGCCCGATNC ACTTCCGTGG NAAGAGCCTG CAATCCCNCC TACTCAGGAG GCTGAGGCAG 60  
 GAGAATCGCC CGAACCCGAA AGGTGGAGGT TGCAGTGAGC TGAGAATGTG CCACCGCACT 120  
 CCAGCCTGGG TGACAGGGCG AGACTCTCTC AAAGTAAATA AATTAAAAAA ATTTAANAAG 180  
 ATCATCAAAG AACAAACGAA ATTTTGTTAT TTCAGTAAGT CAATTTAAAC AATAGAAGCC 240  
 AATTCTACCA CCAGAGGARC RMMATAAAAT CTCATTATTA ATTGAGGGTG GCTTCTCTMC 300  
 CAGGTGRRAA ATTCTATAGR CAGGTATTTT GKTACTACT GACAGGTAAT AAGATTGTTT 360  
 CTWAGGTAAA GGTAAACCCA GCAACACAAC ATTCTTCACT TTGTTTAAT GAACCTCNAN 420  
 ATTCATCATA TTACTTNTAT TTGCTAGCAT GCTTTTGTG GAAGTGGATC CGGTTCGGCC 480  
 TCTTTGGCCC TCGAGACA 498

## (2) INFORMATION FOR SEQ ID NO:84:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

CGASCCGGAT CCACTTCCCC CTTACGTATC ATTTGTCACA CAGGCCTCAG CCTGAAAAAA 60  
 AATCCAGTT TTTGTGTATT GCAGTTCCCG TATGCTATTG TCAACCAACA GTTCCGTGA 120  
 TCCTTGAGT CTAATGAGTT TGGATGCATC TATGTTCTTA CTGGATCCAC TGTCCCGTCT 180  
 CGGCAGCTCT TCCTCACTGC TGCTACTCTT TTCTGGACAC TCCTTTTTTT CCATTGTGCA 240  
 AATGTGGTAT TTATGTCTTT ACTGTATCTT TTTTACCCAT GTGAGTTTCA GGAGCCCCAG 300  
 GGTGCAGGAA GGAGGAGCGG AGGCTTGTG CTGGACACT GCCAGGCTGC TCTGTGTTCT 360  
 GTTCTCTTG GRAAGTGGAT CCGGTTCCGC CTCTTGCC CTGAGACA 409

## (2) INFORMATION FOR SEQ ID NO:85:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 611 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

GAACCGGATC CACTTCCGAA GAGAAGGTCA GAGCGCACTG CAGGCAGCGC GGCTCTGGGA 60  
 AGAACTTCAC GGAGCCCCTT CTTAGAGCAG GGAGGGGGCT TTCTCAGTGA AATGTTTGGT 120

TTTCTGCTGC	CTCCTCTGCC	CCAGGCCCCC	CTCCAGGGTA	CTGCCTATCC	CAGATAGGTC	180
AGTGCAACCAG	GGACCCGGCC	GCCAGCACCG	CCGACCCCTC	CCAGAGTGAC	GCCCTTGTTT	240
ACTGACAAAG	AGACCTGTCC	CAGGAGTGTC	CTCCACCGAG	CCGGTCAGCT	GTGGGTGGTT	300
TTCCTGTTAC	GACGCTCAGT	AGCCTGTAGC	AATAACAAAC	TCGTGGCTAT	GAATGCAGAT	360
GCAGTGTCT	CATAGAATAA	CTGTTCTGTC	ACTTTTACAG	ACAAATCTAC	GACAAAAAAA	420
AAGATCAACT	TTTTTTTCC	GAACAACAAA	AAAAATGAAT	GATTACAATA	GGAAAGGGAA	480
AAATTAAATA	GCTACATATC	ATTAACAAAT	TAATGTTCTT	CAAAAAATAC	CTACAAATTT	540
CTCTGTACAT	TCTTTACGCA	CAGCGTAACG	ATGGAAGTGG	ATCCGGTTCG	GCCTCTTTGG	600
CCCTCGAGAC	A					611

## (2) INFORMATION FOR SEQ ID NO:86:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

GAACCGGATN	CACTTCCCCT	CCACGTAGTT	GGNAGGGGAA	CCAGCCAACC	CGGCCATAGA	60
TCTCCCCTCG	CCACCAGCCT	TGGTGTCCTT	TCTTGTTAAG	GATCTTGATG	ATGTCACCCCT	120
CCTTGAGCGA	CAGCTCTGAT	CGGTCTCGGG	CGCAGAAATC	ATAGCGGGCT	TTGGGTGTGC	180
CAAAATACTT	TGTGCTTCCC	ACTGNTGGNC	TGCTGATGGT	TCTCTTTTCA	NGCTCCTTGA	240
AGGGGAACTG	CAANGTGGTG	TCCAGAGACT	TGAAGCAATC	CNTTAGAGAG	TTCTGNTGGT	300
AAAACCTCCAC	CAGNTCCGTA	AGCCCCNGA	AAGNCTTTT	CTCTGTGATC	CGGTACAGAA	360
CCTTCTTCTG	TCA					373

## (2) INFORMATION FOR SEQ ID NO:87:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 489 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

GTTGACCGCC	CACGATGATC	TTGCCGCCAC	GCTTGCTGGT	CTTCTCCACT	GACAAGGCAG	60
TGCTCAGGCC	CTGCTCATGC	TTCCCCAGAC	CCTGGCCCTC	CCGGAAGCCG	NACTTCTGCA	120
TGATCTTGTC	CGCCACCGTG	CCCCCATGT	TAGCGAGGAA	GGAGTTGCTA	GGTCCGGTTG	180
GAGATCTCGG	TCTGTCTTGT	TCTCGTACA	CTGGGGGAGG	AATGGCTGCT	TTGGAAGACT	240
GTGATCGAGG	TCTTGAGTCC	TCTTCATAAG	GAAATCTCG	GGGTAACCTCT	TTGTCTTTCT	300
CTACCAGAGA	AGTGGGTGGG	GCAATGGCAG	CTCGCCCAT	ACTTCTCTTC	CTCCTCTCTC	360
GCTCATAATC	TTCATCTTCA	TCAGAATCTG	GATCTGGTCT	CCTTGCAAAC	CCACTTGCTT	420
CATGTCTGTC	TTTACGCCTT	TTTTCCCTTT	CTTCTATTTC	CGTCGACGGC	CTCTTTGGCC	480
CTCGAGACA						489

## (2) INFORMATION FOR SEQ ID NO:88:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 520 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

GACGACTTTG	TGGGTATTAA	TTTTTGTTTA	AGTTTAAAT	AAAAGTAAAG	ATTCATTTTG	60
GATATCAGTT	GAAACCCCTT	AGTAACTCAG	TTTCTGTTAT	TCTGTTCCTC	ATTTCCTTTA	120
AATACACTTG	TTCTTGGCTT	TTGCCATTTT	GATTCTGTGA	AGTAGGCAGG	AGCAGGGATT	180
AATTTATACA	GTATTCCTGT	TCTGAACAAA	ACCAGAAAAG	TCACGTGATA	AACCTGACTT	240
AAAATAGTAT	CTTTCTCTTY	TCATGTATTT	TCATTGGGGG	GAAAAAAAT	CTCTTTAATT	300
GTAACCTGAA	TTCAAGCTGT	ACCCCTCCAT	GGTCCTACAC	TCTAGAGCTA	ATCTGGTTGG	360
GCAGAAAGGC	AGAAGGATGG	TATATTGTCC	CATTGTGCCT	ATAATGTATT	TTAAATTGGT	420
CATTCCACCT	TACCTAATGG	AAATTCTTGC	AGCTTTCCTA	GTGCTCATCA	GCGGTTTTAG	480
GAATTCACCTA	ACGTCGACGG	CCTCTTGGC	CCTCGAGACA			520

(2) INFORMATION FOR SEQ ID NO:89:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

GTTGACGGCG	TGGTGGCGGG	TGCCTGTAAT	TCCAGCTACT	CAGGAGGCTG	AGGAAGGAGA	60
ATCATTTGAA	CCTGGGAAGT	GGGGTTGCA	GTGAGCCAAA	ATCGTGCCAT	TGCACTCCAG	120
CCTGGGCAAC	AAGAGTGAAA	CTCCATCTCA	GAAAAAATAA	AAAAAATAA	AAAAAATAA	180
GAAGGAACCG	GTGGGGCAAG	CAGAGTTAAG	ATGCTTTGCT	AAGTTAAAAA	GTCTACTAAC	240
TACCAAATCT	TGCTGTGGYT	TATCCAGAGC	TCTCAAAATG	CTGCCAATCT	ATTTTAAAGA	300
AGACCTAAAT	CCTCATTTTG	GCTTTTAGGA	CACTAGGATT	TGCCTTCAAC	CCATGTCTCC	360
AGTCATATAT	TTTCTTACTA	TTCTTCAAAC	ATACCTTTTT	CTCTTTTCTT	CACTCTTCAT	420
TATGCTGTTT	AAATCGTCGA	CGGCCTCTTT	GGCCCTCGAG	ACA		463

(2) INFORMATION FOR SEQ ID NO:90:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

GTACAAGAAG	TGGTCCATTC	CTTTGTCTGA	AGGAGCGACA	GGAGCATCTA	CGGTTGAGAA	60
GACAGAAAGT	TTGGCTTCGT	CGATGTCTTG	CTGTGTGAAT	TTTCAGACT	TAGCCCAGTC	120
GACAGCCTTC	CCAAAAGACT	GGAGCGTCTC	TATTGTATTT	GGGTCCCTGT	AAGAGTAAAC	180
GGTGAAATC	CCATTGTGGC	TGAGTTTTCG	GCCTCCACCA	TAAGCACCGC	CTTTTCTCG	240
AATTTCTGTA	TGCAAGAATT	TGGCAGTCAT	CAACGTGCA	AGGATTTTAA	GACTGGCATG	300
ATCTGGGTCC	GTGTAGGGGA	CAGTTCGGAT	GCATTACCC	ACGTTATTCA	CCGGGAAGGG	360
CATCAGGAAG	TGAGTCTTCA	TCTGCCAGGG	CTTGAAGGTG	GGTTCCATGA	CCAGCTTCCT	420
AATGACCTGG	GAGCCATGGG	GAACGTGGGC	ATCTCCACCA	GAGCTGCTGG	GCACAGGTTT	480
CTCGACCGTG	TGTGGGCGCA	CAGGCCGTGC	ACGGCTCTT	TGGCCCTCGA	GACA	534

(2) INFORMATION FOR SEQ ID NO:91:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 450 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

```

GTCGACCAGG ACTAGATTCT GTCTCTCCAA AGTGGCCCAA GCCCTGTTCT CTGTACTAGG      60
GAAGCCAGCT GTGTCTTTTC GAGGACAGTT GGTCCAGCCA GCAGGCTCAG TTCAGATACC      120
AGACAACCAT TCCAGCACGA GGGCTCAGCG CCCTGGCCCC GCGGTCGCT CCAGTGCCTG      180
TGTGCCCAACC AGCACATCCA TGAGGTAGTC CAATTGCGCC TCGTCCAGCT CCGGAGCTTC      240
CTCCTTGCGC GGGCCATCCT CAGGGCCTGG TTTGAGGCC TCAGAGGCTG GTGCCCAAAG      300
TTCATTGTCA TACATAGAGG TGTCAATATC CTCAAACAGG CCCTCAAGCC CATCGTCCAG      360
TAGACAGCCA GTGGCTGGGC CCAGCAGGTC CAAGGCACCC AGGCTGGGCG CTGCTCCCCC      420
GATGCTACGG CCTCTTTGGC CCTCGAGACA                                     450
  
```

(2) INFORMATION FOR SEQ ID NO:92:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 449 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

```

GTCGACGGCG GYCATGGCAA AGCAGTACGA CTCGGTGGAG TGCCCCTTTT TTGTGATGAA      60
GTYTCCCAAA ATACGAAGAA GCTCGCCAAG ATCGGCCAAG GCACCTTCGG GGAGGTGTTT      120
AAGGCCAGGC ACCGCAAGAC CGGCCAGAAG GTGGCTCTGA AGAAGGTGCT GATGGAAAAC      180
GAGAAGGAGG GGTTCCTCAT TACASCCTTG CGGGAGATCA GGATCCTTCA GCTTCTAAAA      240
CACGAGAATG TGGTCAACTT GATTGAGATT TGTGGAACC AAAGCTTCCC CCTTATAACC      300
GCTGCAAGGG TAGTATWTTA CCTGGTGTTT GACTTCTGCG AGCATGACCT TGCTGGGCTG      360
TTGAGCAATG TTTTGGTCAA GTTCACGCTG TCTGAGATNC AAGAGGGTGA TGCAGATGCT      420
GCTTAACGGC CTCTTTGGCC CTCGAGACA                                     449
  
```

(2) INFORMATION FOR SEQ ID NO:93:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 493 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

```

GTCGACAAAA CATGGAGTGT TTCCTTTGGC CACATATATG CGAATCTATA AGAAAGGTGA      60
TATTGTAGAC ATCAAGGGAA TGGGTACTGT TCAAAAAGGA ATGCCCCACA AGTGTTACCA      120
TGGCAAAACT GGAAGAGTCT ACAATGTTAC CCAGCATGCT GTTGCCATTG TTGTAAACAA      180
ACAAGTTAAG GGCAAGATTC TTGCCAAGAG AATTAATGTG CGTATTGAGC ACATTAAGCA      240
CTCTAAGAGC CGAGATAGCT TCCTGAAACG TGTGAAGGAA AATGATCAGA AAAAGAAAGA      300
AGCCAAAGAG AAAGGTACCT GGGTTCAACT AAAGCGCCAG CCTGCTCCAC CCAGAGAAGC      360
ACACTTTGTG AGAACCAATG GGAAGGAGCC TGAGCTGCTG GAACCTATTG CCTATGAATT      420
  
```

CATGGCACAA TAGGTGTTAA AAAAAAAAAA TAAAGGACCT CTGGGGTCAA CGGCCTCTTT 480  
GGCCCTCGAG ACA 493

## (2) INFORMATION FOR SEQ ID NO:94:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 437 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

GTCGACGAGG GGGTCATGGY AGGCAGGGGC AGGTGCGTCA GAGATGGAGC GCAGGTCCTG 60  
 CATGGAGAAG CTCGCGAGCC TGCCGGCCAG CGCCCCCTGA CTCTGGTGG CAGCCTGCAC 120  
 AGCAGCGGAG GCGGCAATGT TGAGGCCCG CTTCCGAAG CTGAGCACGG TCTCGTAGCT 180  
 GCGCTCCTTG GCCTGCACGA TGTACGCGTC GATCTCCTTC TCATGGCGGG ACAGGGACGG 240  
 GTGGACAAAC TTGCGGTAAA GCAGGCTGGC GCCCTTGGTG TAGGGTGAGA GCAGCCACAG 300  
 CACGAAGGCC ATCTTGATCT CATAGTAGAA AGGGAACCAG GAGATAAAAA TGTCTGTAAC 360  
 GATCTCTGCT GCCATGAAGA GTGCARCAA CTATCCAGTA CATCATCCAG TGGACGGCCT 420  
 CTTTGGCCCT CGAGACA 437

## (2) INFORMATION FOR SEQ ID NO:95:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 493 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

GTCNACCGCC CTTCTGTCT CCTCCTCAGT NGTACACCTG TGTGGTCTCC ACCACCTCAG 60  
 ACTTNTCTCC CCCCTTTCAG TNGGAAGAAG GNGCAGGCC GTCTCGGGGT CCTCCACGCA 120  
 CCGNTCCAGA AGTTGCCTGT ACGTGAGGTT CTCATGCGTG TTGGGGTNAA AGAAGCCCTT 180  
 GGTGTCTCG CTGGGGTCCG CCGGGACGCG GKTCATCTCC TCACTGAAGT AGCCCCGCTG 240  
 GTAGRSCAG TCCACAGACA CGCGGTGGTT GTGYACGGG TCGATGATRC CGCCCGTGGC 300  
 GATCTGGGCC TCCAGNAGN GGATNCCGTG CTGCNNGAGA ACCAGNCCCT TCTNNATGTC 360  
 CTGGAAGAGN GAGATGGTCC CCCCCAGTA GGGGTCTCTG TANCCGGTGA CGNCCTTCTC 420  
 GACAGACAGC ATCTGCTCGT GAAGCTCGGG GCCCACCAG CCCGCCTTCA CGGCCTCTTT 480  
 GGCCCTCGAG ACA 493

## (2) INFORMATION FOR SEQ ID NO:96:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 571 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

GTTGACCCAC GTTAGTACGG TTGGATAGGA TATGCTCTCA TGGTAACGCG TCCAAGTTGG 60

AATGGTCTTC	CAGTCTCCAT	GGNATCCACA	TGCTACTGGC	GTTAGTTCCA	GATCTTGAGG	120
AAGNTATCCC	AGGACCCTGT	CGCCACAGGC	ATGNCATCGT	CANTCACGCC	CAGGCAGCTG	180
ACGCGGTTGT	CATGNCCAGN	CAAGACAAC	GCCCGGTCGG	GTTTGNGTGC	ATCCCAGACG	240
TTGCAGTTGA	AGTCGTCGTA	CCCAGCAAGG	AGGAGGSGSC	CGCTCTTGGW	GAAGGAGACA	300
GAGKTGATCC	CCCAGATGAT	GTTGTCATGG	GAGTAAGTCA	TGAGCTCCYG	GTGAGCACGA	360
AGGTCAAACA	GCCTGCNGGT	GGCGTCGTCT	GAGCCAGTGC	CAAATGCATT	GCCATTGGA	420
AAGAANCAAA	TGNCATTGAT	GTGAGACTCG	TGCCCAGTGA	AGGTCTNCCG	GCACATGCCT	480
TCTCGCACAT	CCCAGAGTTT	GTCTGAAGCA	TCACAAGCAC	CAGAGACGAA	CAGTCTGGTG	540
TCAGTCGACG	GCCTCTTTGG	CCCTCGAGAC	A			571

## (2) INFORMATION FOR SEQ ID NO:97:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 526 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

GTGACGTAC	CACCAGCAAC	CATCAATCCC	GTCTCCTCCT	GCCTCCTCTC	CTGCAATCCA	60
CCCCGCCACG	ACTATCGCCA	TGGCAGCCCT	GATCGCAGAG	AACTTCCGCT	TCCTGTCACT	120
TTTTTTCAAG	AGCAAGGATG	TGATGATTTT	CAACGGCCTG	GTGGCACTGG	GCACGGTGCG	180
CAGCCAGGAG	CTGTTCTCTG	TGGTGGCCTT	CCACTGCCCC	TGCTCGCCGG	CCCGGAAC	240
CCTGTACGGG	CTGGCGGCCA	TCGGCGTGCC	CGCCCTGGTG	CTCTTCATCA	TTGGCATCAT	300
CCTCAACAAC	CACACCTGGA	ACCTCGTGGC	CGAGTGCCAG	CACCGGAGGA	CCAAGAACTG	360
CTCCGCCGCC	CCCACCTTCC	TCCTTCTAAG	CTCCATCCTG	GGACGTGCGG	CTGTGGCCCC	420
TGTACCTGG	TCTGTATCT	CCCTGCTGCG	TGGTGAGGCT	TATGTCTGTG	CTCTCAGTGA	480
GTTGCTGGAC	CCTTCCTCAC	TCACGGCCTC	TTTGGCCCTC	GAGACA		526

## (2) INFORMATION FOR SEQ ID NO:98:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 520 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

GTTGACTTTG	TGGGTATTAA	TTTTTGTTTA	AGTTTAAAT	AAAAGTAAAG	ATTCATTTTG	60
GATATCAGTT	GAAACCCCTT	AGTAACTCAG	TTTCTGTTAT	TCTTGTCTC	ATTTCTTTTA	120
AATACACTTG	TTCTTGCTT	TTGCCATTTT	GATTCTGTGA	AGTAGGCAGG	AGCAGGGATT	180
AATTTATACA	GTATTCCTGT	TCTGAACAAA	ACCAGAAAAG	TCAGTGTATA	AACTTGACTT	240
AAAATAGTAT	CTTCTCTTTT	TCATGTATTT	TCATTGGGG	GAAAAAAAT	CTCTTTAATT	300
GTAACCTGAA	TTCAAGCTGT	ACCCCTCCAT	GGTCCTACAC	TCTAGAGCTA	ATCTGGTTGG	360
GCAGAAAGGC	AGAAGGATGG	TATATTGTCC	CATTGTGCCT	ATAATGTATT	TTAAATTGGT	420
CATTCCACCT	TACCTAATGG	AAATTCTTGC	AGCTTTCCTA	GTGCTCATCA	GCGGTTTATG	480
GAATTCACTA	ACGTCGACGG	CCTCTTTGGC	CCTCGAGACA			520

## (2) INFORMATION FOR SEQ ID NO:99:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 501 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

```

GAATTCGGCC AAAGAGGCCG TTGACGGGGC TGGAGGAGGA AGAAGAGGTG GATCCCCGGA    60
TCCAGGGGAGA ACTGGAGAAG TTAAATCAGT CCACGGATGA TATCAACAGA CGGGAGACTG    120
AACTTGAGGA TGCTCGTCAG AAGTTCCGCT CTGTTCTGGT TGAAGCAACG GTGAAACTGG    180
ATGAACTGGT GAAGAAAATT GGCAAAGCTG TGGAAAGACTC CAAGCCCTAC TGGGATGCAC    240
GGAGGGTGGC GAGGCAGGCT CAGCTGGAAG CTCAGAAAGC CACGCAGGAC CTCCAGAGGG    300
CCACAGAGGT GCTCCGCGCC GCCAAGGAGA CCATCTCCCT GGCCGAGCAG CGGCTGCTGG    360
AGGATGACAA GCGGCAGTTC GACTCCGCCT GGCAGGAGAT GCTGAATCTC GCCACTCAGA    420
GGGTCATGGA GCGGAGCAG ACCAAGACCA GGAGCGAGCT GGTGCATAAG GAGGTCGACG    480
GCCTCTTTGG CCCTCGAGAC A                                     501

```

(2) INFORMATION FOR SEQ ID NO:100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 525 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

```

GTGACCCGTG TCCAGAGCCC ACCTCCCTCA CACCCACACA GCGCTTCCTA AAGGCAGGGA    60
CAGGAGCTGG CCTCCCTCGC CTGCTGGCAT GGGGCTGGAC ACAGGAGGAA GTGGCGTGGG    120
GGCTGCCTGA GGGGAGTGAG GCGGCAGGAT AGCTTCCCCA GCAGGTCTCT GGCTCAGGTC    180
CAGGTATCTC CTCCTCCCCA TACCTCTGCC TCTCGCCTCC GCTCAGAAAA GCAGGTGCCC    240
TTAAGAGCCA TCTCCACCCC CATGTAAACT GCACACAGGA AGGGAGAGGC CACTCCGACT    300
GCTCTGAGGT CCAGGTAGGA TGGTTTCCCC CAGTGTCTGG GTGGGGAGCA AGGAACTCCA    360
GGGGCGACCT TGTGCCACCG CATCACCTTC CTGCTCAGGG AAGGGGCCCG TGCTGCCGCT    420
TGGAGGGTGC CATGCCCAGA GCCTCTGCCC CTAGCCTCAG CCTCGCCTAC TCACTGGGGG    480
CTCCAGCACC CCCGGCCGTC AACGGCCTCT TTGGCCCTCG AGACA                     525

```

(2) INFORMATION FOR SEQ ID NO:101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 425 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

```

GTGACGCGCA GTGGAGACCT GTGGTAGAGA AGCTCCTTTT GATGTCCTAC AGGCTTTCCA    60
CTGTGGTGTG TCCAGTCATT CAGAGCTCAT CCCTGAAGG CCTCATCCCA ATGGACACTG    120
ATTGAGAGTC AGCAASCCGC TTACAGATGA TTCTGAATGA GATTCAACCT CGAGATACTA    180
ATGATTATTT TAACCAAGCC AAAATATTGA AAGAACATGA TAGCTTTGAT ATGAAGGACT    240
TGAATGCTAG TGTGGTGAAT ATTGATACTT CTACAGAAAT CAAAGGTAAA GAAGTAAAAA    300
CATGTGATGT AACTGCGCAG ATGGTGCTGG TATGTTGTTG GAGAAGTATG AAGGAAGTTG    360
CTTTACTTTT AGGCATGTTG TGCCAGCTTC TGCCCATGTC AACGGCCTCT TTGGCCCTCG    420
AGACA                                     425

```

## (2) INFORMATION FOR SEQ ID NO:102:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 462 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

```

GGGACGTAAT CAACCAAGC TTATGACCCG CACTTACTGG GAANTCNTCG TTCATGGGGA      60
AGAANTGCAA TCCCCGATCC GCCATCACGA ATGGGGGGCA CCGGGTTANC CGCGCCTCCC      120
GGCGTAGGGT AGNCACACNC TGANNCAGTC AGTGATCGC GCGTGCACTN CCGGACATCT      180
AAGGGCATCA CAGACCTGTT NTTGNTCAAT CTCGGGTGGN TGNNGGCCAC TTGTCTCTCT      240
AAGAANATGG GGGACGCCGC CCNCTCGGGG GTNGCGTAAC TAGNTAGNAT NCCAGAGTCT      300
CGTTCGTAT  CGGAAGTAAC CAGACANATC GTCCTCCCAN CTAAGANNGG CCATNCACCA      360
CCACCCACGG AATCGAGANA GAGCTATCAA TCTGTTGTTA GGACATGCCC GGCTTGCTTG      420
GTATCATCTT TGGTGACNC GACCTCTTG  NCCCTCGAGA CA                        462

```

## (2) INFORMATION FOR SEQ ID NO:103:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 446 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

```

GTCGACAGAA ATCATTATTC TTTATTGCA GNCATTCCAC CCCACCTATG TTTCTTCTC      60
CTTCCTTCTT CTCTGTCAGG AGAGTCTTG TCATGCTGAG CTTCCTCATT GTATGGCATT      120
TATATTTTAG CACTGTTTTA TTATTGCCTT CTGTATCAGC ATGTTCAACA TTTCTTCAA      180
ATATAACACA GGTCCCTAGA GTGTCTTCAT ACTCCCCAGC AAAGACACAG CTGTCCACTT      240
GCAGAATGGG CCTCTCAGTG TCAATGCCCA AAACCTTGCA TTTATTTTCA CATTTTGAGA      300
GGAAGTCTGA ATCAATAATT CCTGATAATT CCACCAGAAC CAACTGCTCC TCCTCTTCTC      360
CGTCTTCTCC GTCCTCTGGA CTCGCTCGT CCGCCGCCGC CGCCATGGTC CCGCGGCGGT      420
TGACGGCCTC TTTGGCCCTC GAGACA                        446

```

## (2) INFORMATION FOR SEQ ID NO:104:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 466 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

```

GANTTCCAGT GAAGTTGCCT TTTTGCCNNC CCTAGNCATC CAACCTNTCN AAAACCAAGT      60
ANACNAGGCT GATTCTGGAA GTTCTTGAGG AAAAAGCAAG CTTTACAACC AAAATACCCA      120
GATGCTGTGN CCACATGGCT AAACCTTGA CCCATCTCAG AAGCAGAATC TCCTANCCCC      180
ACAGAGTGCT GTGTCCTCTG AAGAAACCAA TGACTTTAAA CAAGAGACCC TNCCAAGTAA      240
GTCCANCGAA AGCCATGACC ACATGGATGA TATGGATGAT GAAGATGATG ATGACCATGT      300

```

GGACAGCCAG	GACTCCATTG	ACTCGANCGA	CTCTGATGAT	GATAGTGACA	CTGATGATTC	360
TCACCACTCT	GATGAGTCTC	ACCATTCTGA	TGAATCTGAT	GAACCGGTCA	CTGATTTTCC	420
CACGGACCTG	CCANCAACGT	CGACGNCCTC	TTTGNCCCTC	GAGACA		466

## (2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 568 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

GTCGACAGCG	ACCGCTCCTC	CCTTCCTTCC	TTGAATCAGA	GCACGGTAGA	AAGCTGCTGC	60
TCTATGCCGA	AGTGTTCGGA	AATTCTTGGC	AGCTGCATAG	ACCGCGGGGC	TGTCCCCTAA	120
CCTTTGCTCT	TGTCGCCTCC	TCCACCAGGA	GGGCCCCCCT	CCCTGTACCC	CAGCTTCCCA	180
CAGAGCTGCA	GGCACAGCTT	GGCTGCCTCC	CGCTTCCAGA	CCCCTATCTC	CATCAGGTGG	240
GCCTGAGGCG	GGGCTGACTC	TTTCTTTAGG	CCCCTCACAG	GGACTAGAGC	AGAATGGCAC	300
TCAGTAAGCA	GGGGTGACAA	CTAGAGGAAT	GGCAGGGTGT	GTTCACTGGG	GAGAACAGTT	360
ACCAGAGACG	CTGTGATTCT	TCAGGTGTGA	GGGCAACTGT	TACAAGACTT	AAGTAGCAAC	420
AACAACCATG	GTAGACGCTG	CCTTCGATTG	TGCCCTTGGG	AGTCCCAGGC	CTGGCACCAG	480
GCCCTACTCA	TCCTTCATTT	CTTTTCTTTT	TCTTTTGTIT	TTTGTITTTT	GGGTTTTTTT	540
GTCAACGGCC	TCTTTGGCCC	TCGAGACA				568

## (2) INFORMATION FOR SEQ ID NO:106:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 475 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

GATTcanttt	GGATATCAAG	TTGNCNCCCC	CNTAGTAACT	CAGTTTCTGT	TATTCTTGTT	60
CTCANCTTCC	CNATAAAAAC	ACTTGTTCGT	GGCTNTTGCC	ANNTTGATTC	TGTGAAGTAG	120
GCAGGAGCAG	GGATTAATTN	ATANAGTATT	CCTGTTCTGA	NCGCAACCAG	AAAAGTCACT	180
GTATAAACTT	GACTTAAAT	AGTATCTNTC	TCTTTTCATG	TATANTCAGG	TGGGGGGGNA	240
AAAATCTCTT	TAATTGTAAAC	CTGAANTCAA	GCTGTACCCC	NCCATGGTCC	TACACTCTAG	300
AGCTAATCTG	GNTGGGCAGA	AAGGCAGAAG	GATGGTATAT	TGTCCCATTG	TGCCTATAAT	360
GTATNTTAAA	NTGGTCATTC	CACCTTACCT	AATGGAAATT	CTTGACGCTT	TCCTAGTGCT	420
CATCAGCGGT	TTTAGGAAGT	CACTAACGTC	GACGGCCTCT	TTGGCCCTCG	AGACA	475

## (2) INFORMATION FOR SEQ ID NO:107:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 470 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

CCTGAGTTGT	GTCTAAGGNN	CNCAAGACAA	GTACCCAAAGT	TTCCTCTAGN	TNTTCTCTTT	60
AAGCTTCTCN	AGTCATACAT	TTNCAAGCGT	CCTTTTGTCA	ACCATNCCAG	TCNANATACA	120
TTATTTGTCC	TCCAATGGNT	GACTTGCCAG	CATCTACGTG	NCCAATGAAT	ACTACATTTA	180
CATGCTCTTT	CTTAGGAGCA	CCTGGCGGTG	CAACCACAGA	CTTAGGTNTT	GGGATTTCCT	240
CTTCTCTCTC	CATCATTTCA	TGGGCACTTT	TCTCTGGCGG	CCTTCCATCT	CCCAGGAAC	300
CACCCCCTGG	CTCTGCTTCA	CTTATTTCTT	CTTTGTGCTC	CCATGATTCT	TCTGGAGACA	360
TTTCTGTCTC	TCCACTTTCT	ACAATAGGTT	CTGAAAGTTC	CATGCTAACA	GCTGAATTTG	420
AACCTTCACA	CAATGACTGT	TCGTCGACGG	CCTCTTTGGC	CCTCGAGACA		470

## (2) INFORMATION FOR SEQ ID NO:108:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

GAATTCGGCC	AAAGAGGCCT	ACTCACAGTC	ATCAATTATA	GACCCACAAA	CATGCGCCCT	60
GAAGACAGAA	TGTTCCATAT	CAGAGCTGTG	ATCTTGAGAG	CCCTCTCCTT	GGCTTTCCTG	120
CTGAGTCTCC	GAGGAGCTGG	GGCCATCAAG	GCGGACCATG	TGTCAACTTA	TGCCGCGTTT	180
GTACAGACCC	ATAGACCAAC	AGGGGAGTTT	ATGTTTGAAT	TTGATGAAGA	TGAGCAGTTC	240
TATGTGGATC	TGGATAAAAA	GGAGACCGTC	TGGCATCTGG	AGGAGTTTGG	CCGAGCCTTT	300
TCCTTTGAGG	CTCAGGCGGG	GCTGGCTAAC	ATTGCTATAT	TGAACAACAA	CTTGAATACC	360
TTGATCCAGC	GTTCCAACCA	CACTCAGGCC	GTGAG			396

## (2) INFORMATION FOR SEQ ID NO:109:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 524 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

GAATTCGGCC	AAAGAGGCCT	ACCCGATTGC	TAAATGGATT	ATGAAAGCAA	ATTGCTACTG	60
GGAGGTGATG	GTCAAAAGCA	AACTTAGATG	GTTTTCACAC	CATCTGTCAT	CATGACTCAA	120
AGGGAAATGC	TAGCCACACC	ATTTTCCAGT	GAAGCCACTG	CTTTACACAG	AGATACACA	180
TAGCTTCCTA	TGTTATTTT	CTTTTCTAAT	TATGTACATT	TAGAAAAAAA	ATACAACACT	240
GTGTTAAACA	GCAGGACAGC	TAGCAATGGA	ACATACAACA	CTATGCTGAA	AAACCACAAC	300
AGCTTGGTTA	AGCGGAGGAG	AGAAACAGAG	ATGGCCTTCA	TGGAGTGAAG	CTGTCAATGC	360
CTGCCATCTC	CTTAGTCTGT	GACGGATCTG	CACTCTGAGG	GCAGGCCTTC	TGAGCGCCGC	420
CACTTTGCCA	GGCGCTGCTT	AAACCATTTC	TGGGTCTCCT	CCTCGGAAAG	GCCTGCCTCG	480
GCCGCGATGA	GGCACAGCGT	GGTGAATCC	GGGTGCTTGT	CGAG		524

## (2) INFORMATION FOR SEQ ID NO:110:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 377 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

GAATTCGGCC	AAAGAGGCCT	ATTTTTTTTT	TCTTTTTTTA	GGCATATGTA	GTAATATTAG	60
AAACATTTAA	TTTGGGAAAC	TTTGATTCTT	GAAAGAGAAA	ACAAAAGCAT	GTGAATAAAC	120
TTTGAAGTGT	TCACCTCAGT	TTGGGACCAA	ACTGCTTGGA	TCTTTGTAAA	AACCGGTTTT	180
GTATGTCAAG	GAGGAGTTTA	AGGCCTTTCC	GACCACCTTG	TGTTCCCTTT	TTCTGCGCAG	240
CCATGTATCA	CGTGGAGTTG	CTCCTTACCA	CACCTCACGT	GCCCCTGAGC	CCTATTTCCT	300
GATTTCTTCT	GGGCTGGACT	TCCCCGTTCT	CCACCAGCAG	CTCCAGTATC	CCTGTTGAAT	360
TCTAGACCTG	CGTCGAG					377

## (2) INFORMATION FOR SEQ ID NO:111:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

GAATTCGGCC	AAAGAGGCCT	AGCGGACAAG	TTTGAGAGAC	CTGGCCTTGG	CCAAAGCCCT	60
CGATTCGCTG	TGTCAGAAAA	ACTGAGGTGA	GAAGAGACCA	CCACCCTCTC	CACCACCCTC	120
TCAGTAGGAA	AGCGGGATCA	ACAGAGATCA	GAAGGACAGC	ACACTCACAC	CTGCACATGA	180
ACACACCATC	TATGTCAGGA	AATCCAGGGG	AAGGGGAAGA	GGGGTGGAGT	GGCTCCGCGAG	240
GGCTGACCTG	ACAGGGGACA	GGAACACTCC	CCTAGACCCA	GGGAAGTCGC	CCCAAATCCA	300
AAGCTCTTGA	AAGGAGGTAT	GGCCTCGAAA	CTCCAGAAGC	CTCTTCTGCC	AACGCACCGA	360
GGACCTGCAC	CTCCATTCA	GCACGCGTCG	AG			392

## (2) INFORMATION FOR SEQ ID NO:112:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

CAATTCGGCC	AAAGAGGCCT	ACAGCATTTT	TACTCCTTCC	AAGAAGAGCA	GCAAAGCTGA	60
AGTAGCAGCA	GCAGCACCAG	CAGCAACAGC	AAAAAACAAA	CATGAGTGTG	AAGGGCATGG	120
CTATAGCCTT	GGCTGTGATA	TTGTGTGCTA	CAGTTGTTCA	AGGCTTCCCC	ATGTTCAAAA	180
GAGGACGCTG	TCTTTGCATA	GGCCCTGGGG	TAAAAGCAGT	GAAAGTGGCA	GATATTGAGA	240
AAGCCTCCAT	AATGTACCCA	AGTAACAAC	GTGACAAAAT	AGAAGTGATT	ATTACCCTGA	300
AAGAAAATAA	AGGACAACGA	TGCCTAAATC	CCAAAGTCGA	G		341

## (2) INFORMATION FOR SEQ ID NO:113:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

GAATTCGGCC AAAGAGGCCT AGCAGTAGCA TGTGCAGCAA CCAATCAAGA TGGAGAACTA	60
TACCTGCACT CATTGTGTG TTTGCATGTA TAGTTCTCTG CAGTAGCATG TGCAGCAACC	120
AATCAAGATG GAGAACTGTT CCATCGCAA GCTCCCTCTT GCCACTTCTT TTTAGCCACC	180
CAATCCTCTC TGCTCCCGTC GAG	203

## (2) INFORMATION FOR SEQ ID NO:114:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 585 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

GAATTCGGCC AAAGAGGCCT ATGAAGATCA GCTATTAGAA GAGAAAGATC AGTTAAGTCC	60
TTTGGACCTG ATCAGCTTGA TACAAGAACT ACTGATTTCA ACTTCTTTGG CTTAATTCTC	120
TCGGAAACGA TGAATATAC AAGTTATATC TTGGCTTTTC AGCTCTGCAT CGTTTTGGGT	180
TCTCTTGGCT GTTACTGCCA GGACCCATAT GTAAAAGAAG CAGAAAACCT TAAGAAATAT	240
TTTAATGCAG GTCATTGAGA TGTAGCGGAT AATGGAAGTC TTTTCTTAGG CATTTTGAAG	300
AATTGGAAAG AGGAGAGTGA CAGAAAAATA ATGCAGAGCC AAATTGTCTC CTTTACTTC	360
AAACTTTTAA AAAACTTTAA AGATGACCAG AGCATCCAAA AGAGTGTGGA GACCATCAAG	420
GAAGACATGA ATGTCAAGTT TTTCAATAGC AACAAAAAGA AACGAGATGA CTTCGAAAAG	480
CTGACTAATT ATTCGGTAAC TGAATTGAAT GTCCAACGCA AAGCAATACA TGAATCATC	540
CAAGTGATGG CTGAAGTGTC GCCAGCAGCT AAAACAGGGG TCGAG	585

## (2) INFORMATION FOR SEQ ID NO:115:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GAATTCGGCC AAAGAGGCCT ACTGGCGGCC GCGGAGACGC AGAGTCTTGA GCAGCGCGGC	60
AGGCACCATG TTCCTGACTG CGCTCCTCTG GCGCGGCCGC ATTCCC GCCG GTCAGTGGAT	120
CGGGAAGCAC CGGCGGCCGC GGTTCGTGTC GTTGCCCGCC AAGCAGAACA TGATCCGCCN	180
CCTGGAGATC GAGGCGGAGA ACCATTACTG GCTGAGCATG CCCTACATGA CCCGGGAGCA	240
GGAGCGCGGC CAGCGCGCGG TGCAGAGGAG GGAGGCCTTC GAGGCCATAA AGGCGGCCGC	300
CACTTCCAAG TTCCCCCGC ATAGATTCAT TGCAGGACCAG CTCGACCATC TCAATGTCTGA	360
G	361

## (2) INFORMATION FOR SEQ ID NO:116:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

GAATTCGGCC	AAAGAGGCCT	AAACAAAATG	GTTATCAACC	ACTTGGAGAA	GTTGTTTGTG	60
ACAAACGATG	CAGCAACTAT	TTTAAGAGAA	CTAGAAGTAC	AGCATCCTGC	TGCAAAAATG	120
ATTGTAATGG	CTTCTCATAT	GCAAGAGCAA	GAAGTTGGAG	ATGGCACAAA	CTTTGTTCTG	180
GTATTTGCTG	GAGCTCTCCT	GGAATTAGCT	GAAGAACTTC	TGAGGATTGG	CCTGTCAGTT	240
TCAGAGGTCA	TAGAAGGTTA	TGAAATAGCC	TGCAGAAAAG	CTCATGAGAT	TCTTCCTAAT	300
TTGGTATGTT	GTTCTGCAAA	AAACCTTCGA	GATATTGATG	AAGTCTCATC	TCTACTTCGT	360
ACCTCCATAA	TGAGTAAACA	ATATGGTAAT	GAAGTATTTC	TGGCCAAGCT	TATTGCTCAG	420
GCATGTCGAG						430

## (2) INFORMATION FOR SEQ ID NO:117:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

GAATTCGGCC	AAAGAGGCCT	AGAAGAAGAT	GATCCTAAAC	AAAGCTCTGA	TGCTGGGGGC	60
CCTCGCCCTG	ACCACCGTGA	TGAGCCCTTG	TGGAGGTGAA	GACATTGTGG	CTGACCACGT	120
TGCCTCTTAC	GGTGTAACCT	TGTACCAGTC	TTACGGTCCC	TCTGGCCAGT	TCACCCATGA	180
ATTGATGGA	GACGAGGAGT	TCTATGTGGA	CCTGGAGAGG	AAGGAGACTG	TCTGGAAGTT	240
GCCTCTGTT	CACAGACTTA	GATTTGACCC	GCAATTTGCA	CTGACAAACA	TCGCTGTGCT	300
AAAACATAAC	TTGAACATCC	TGATTAAACG	CTCCAACCT	ACCGCTGCTA	CCAATGAGGT	360
TCCTGAGGTC	GAG					373

## (2) INFORMATION FOR SEQ ID NO:118:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

GAATTCGGCC	AAAGAGGCCT	ACTTAACCAG	AATGACAGTC	TTTCCCCTAT	CTTCCTTCTT	60
TATTCTTATC	TTCTATCTTT	CCCTCCCAA	CTCTTCCCC	GACATAACAG	AAAACATGAA	120
GGAATTAAAG	GAGGCCAGGC	CGCGCAAAGA	TAACAGGCGT	CCAGATCTGG	AAATCTATAA	180
GCCTGGCCTT	TCTCGGCTAA	GGAACAAGCC	CAAAATCAAG	GAACCCCTG	GGAGTGAGGA	240
ATTCAAAGAT	GAAATTGTTA	ATGACCGAGA	TTGCTCTGCT	GTTGAAAATG	GTACACAGCC	300
CGTCGAG						307

## (2) INFORMATION FOR SEQ ID NO:119:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

GGAGCTGCAC ATGGTACTTT TGGAGAGCCT GGTGGAAATC ATTTTGCTTG CTGTTTCAGCA	60
TGTGGATTAT AGTCTTCGAT GTGAGCAGGA TCCAGAGAAG AAAGCTTTTA TCAGACAGAA	120
TGCATCCTTT TTATATGAAA CAGTCCTCCC TGTGGTGGAG AAAAGGTTTG AAGAAGGTGT	180
GGGGAAACCT GCCAAGCAAC TCCAAGATCT GAGGAATGCA TCTAGACTTA TTCGTGTGAA	240
TCCTGAAGTC GAG	253

## (2) INFORMATION FOR SEQ ID NO:120:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 428 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

GAATTCGGCC AAAGAGGCCT ACACATATTG GAAAAATGAT CTTTTTGGAG CACTGTTCTG	60
CTGCTTAGAC CCAGTACTCA CTATTGCTGC TAGTCTCAGT TTCAAAGATC CCATTGTCTCA	120
TTCCACTGGG AAAAGAAAAG ATTGCAGATG CAAGAAGAAA GGAATTGGCA AAGGATACTA	180
GAAGTGATCA CTTAACAGTT GTGAATGCGT TTAGGGGCTG GGAAGAGGCT AGGCGACGTG	240
GTTTCAGATA CGAAAAGGAC TATTGCTGGG AATATTTTCT GTCTTCAAAC AACTGCAGA	300
TGCTGCATAA CATGAAAGGA CAGTTTGCTG AGCATCTTCT TGGAGCTGGA TTTGTAAGCA	360
GTAGAAATCC TAAAGATCCA GAATCTAATA TAAATTCAGA TAATGAGAAG ATAATTAAAG	420
CTGTCGAG	428

## (2) INFORMATION FOR SEQ ID NO:121:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 526 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

GAATTCGGCC AAAGAGGCCT ACAAGACGTC ATTTACAAA GTGCGCCATT CTGAGGATAT	60
GCAGTTTGCC TTCTCTTATT TTTATTATCT CATGAGTGCA GTGCAGCCAC TGAATATATC	120
TCAAGTCTTT GATGAAGTTG ATACAGATCA ATCTGGTGTC TTGTCTGACA GAGAAATCCG	180
AACACTGGCT ACCAGAATTC ACGAACTGCC GTTAAGTTTG CAGGATTGTA CAGGTCTGGA	240
ACACATGCTA ATAAATTGCT CAAAAATGCT TCCTGCTGAT ATCAGCGAGC TAAATAATAT	300
TCCACCAACT CAGGAATCCT ACTATGATCC CAACCTGCCA CCGGTCAC TAAGTCTAGT	360
AACAAACTGT AAACCAAGTA CTGACAAAAT CCACAAAGCA TATAAGGACA AAAACAAATA	420
TAGGTTTGAA ATCATGGGAG AAGAAGAAAT CGCTTTTAAA ATGATTGTA CCAACGTTTC	480
TCATGTGGTT GGCCAGTTGG ATGACATAAG AAAAAACCCT GTCGAG	526

## (2) INFORMATION FOR SEQ ID NO:122:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 340 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

GGGTGGCAAT ATGGACTTCC TCTTTTCTGC CANCCCANAC CCATACATCG GGATTCCTAT	60
AATACCTTCG TTGGTCTCCC TAACATGTAG GTGGNGGNGG GGAGATATAC AATAGAACAG	120
ATACCAGACA AGACATAATG GGCTAAACAA GACTACACCA ATTACACTGC CTCATTGATG	180
GTGGNACATA ACGAGCTAAT ACTGTAGCCC TAGACTTGAT AGCCATCATC ATATCGAAGT	240
TTCACTACCC TTTTTCATT TGCCATCTAT TGAAGTAATA ATAGGCCCAT GCAACTTCTT	300
TTCTTTTTTT TTCTTTTCTC TCTCCCCCGT TGTTGTCGAG	340

(2) INFORMATION FOR SEQ ID NO:123:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

GAATTCGGCC AAAGAGGCCT ACGTCCTTTT AAATCTTAAT GAAATATCAT GGAATATTGT	60
ATGGTCTTCA TATCGTTCTA TATAATGCAA ATGGTGAAC TCTCTGTTCT TTGCTTTCCT	120
GAAAGCATCC ATCCGATCAG TAGCTTTCCC AATAGAAAAA CCTGCAGCTC CTTTCCCGTT	180
CCCCACAGCC ACCAAGACAC GGATCGATTT CTTTCTTCCC TCTTTCGCAG TCATAGTGAA	240
AACGTTTCTT ACCTCAAGTA TCCTGGTATC AAAATCCTCA TATGTTTCTC CACAGTCGAG	300

(2) INFORMATION FOR SEQ ID NO:124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

GAATTCGGCC AAAGAGGCCT ACCAGCTTTG AGGTTGACCT GTTCTCTTT GTCTGCCTTC	60
CCAAAACACC AGCCCCCAGG AAGACATTAA GCAGCCTTAA GCTTAAATTC CTAATCCCTC	120
TTCAAATTT GGCTCACTTG CCTTAGATCC AAGGCAGGGA AAGGAAAAGA AGGGGGGTCT	180
CTGGCTTTAT TACTCCCTA AGTCTTTACT CTGACTTCCC CAAACCCAGA AAGATTTTCT	240
CCACAGTGTT CATTTGAAAG AGGAGTATTT TGTCCCATTT TCCCCTTCCT CATTATCAA	300
CAGCCCCAGT CTCCTTGTC TCTGTAAGA AAGTAGAGGC ATGATGATCT GCCTGTCAAC	360
TGCCCTAGTC GAG	373

(2) INFORMATION FOR SEQ ID NO:125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 644 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

GAATTCGGCC AAAGAGGCCT ACGCAGATAC GGGCTTACAG ATACTTTTTA CACTCTTACA	60
AAATGTTGCA CAAGAAGAAG CTGCAGCTCA GAGTTTTTAT CAAACTTATT TTTGTGATAT	120
TCTCCAGCAT ATCTTTTCTG TTGTGACAGA CACTTCACAT ACTGCTGGTT TAACAATGCA	180
TGCATCAATT CTTGCATATA TGTTTAATTT GGTGAAGAA GGAAAAATAA GTACATCATT	240
AAATCCTGGA AATCCAGTTA ACAACCAAAT CTTCTTCAG AAATATGTGG CTAATCTCCT	300
TAAGTCGGCC TTCCCTCACC TACAAGATGC TCAAGTAAAG CTCTTTGTGA CAGGGCTTTT	360
CAGCTTAAAT CAAGATATTC CTGCTTTCAA GGAACATTTA AGAGATTTCC TAGTTCAAAT	420
AAAGGAATTT GCAGGTGAAG ACACCTTCTGA TTGTTTTGTG GAAGAGAGAG AAATAGCCCT	480
ACGGCAGGCT GATGAAGAGA AACATAAACG TCAAATGTCT GTCCCTGGCA TCTTTAATCC	540
ACATGAGATT CCAGAAGAAA TGTGTGATTA AAATCCAAAT TCATGCTGTT TTTTCTCTCT	600
GCAACTCGTT AGCAGAGGAA AACAGCATGT GGGTATTTGT CGAG	644

## (2) INFORMATION FOR SEQ ID NO:126:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 469 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

GAATTCGGCC AAAGAGGCCT ACGTTATACT ATTAGATCCT TTCATTATCA ATCCCTTTTA	60
AAGGCAAGGA AACAGGTTC AAGATCAG CTGACTTCTC TGTGTAAGTG GGACCTGAGA	120
TTTGAAAGTT GAGAGCAGCA TGTTTTGCCC ACTGAACTC ATCCTGTGTC CAGTGTTACT	180
GGATTATTCC TTGGGCCTGA ATGACTTGAA TGTTTCCCGG CCTGAGCTAA CAGTCCATGT	240
GGGTGATTCA GCTCTGATGG GATGTGTTT CCAGAGCACA GAAGACAAAT GTATATTCAA	300
GATAGACTGG ACTCTGTAC CAGGAGAGCA CGCCAAGGAC GAATATGTGC TATACTATTA	360
CTCCAATCTC AGTGTGCCTA TTGGGCGCTT CCAGAACCGC GTACACTTGA TGGGGGACAA	420
CTTATGCAAT GATGGCTCTC TCCTGTCCA AGATGTGCAA GATGTCGAG	469

## (2) INFORMATION FOR SEQ ID NO:127:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

GAATTCGGCC AAAGAGGCCT AGAGGGGACT CGCCGCCATC TCAGGTCTCT TGGCTTTGCC	60
AGGGCCACC GGAGAAACT GACGACCCGT TTCTGTAATC CTTATGGGAG ACCAACCTTG	120
TGCCTCCGGG AGATCCACTC TCCCACCTGG AAACGCACGG GAAGCCAAGC CTCCAAAAAA	180
GCGCTGCCTC CTCGCTCCGC GTTGGGATTA TCCGGAAGGA ACTCCCAACG GAGGTAGTAC	240
CACTTACCC TCCGCACCTC CTCCTGCATC AGCCGGCCTG AAGTCGCACC CTCCTCCTCC	300
GGAGAAGTAG AGAAATAAAT TTCTCCACC CTAACCAAGT CTTTGAGTGA TTGCAGTATG	360
ACTCCATTTC CCTGGTGCAT TCATATAATA GTTCACCTGG TGAACAACAT GAAGATTATT	420
TACAATGCTA CCGG	435

## (2) INFORMATION FOR SEQ ID NO:128:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 171 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

```
GAATTCGGCC AAAGAGGCCT AACCAAGCAG AAGCTGTACC ACAAGAAGAT CTTCCGGACT    60
GCCATGCTGT TCCAGTTTGT GAACTGCTG CTCCAGGTCC TGGTCCACAA GTCCCATGAT    120
CTTCTGCAGG AGGAGATTGG CATCGCCATC TACAACATGG CCTCAGTCGA G            171
```

(2) INFORMATION FOR SEQ ID NO:129:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 372 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

```
GAATTCGGCC AAAGAGGCCT AGTCATGACT CCCCTGATTT GGCTCCTAAT GTCACCTATT    60
CCCTGCCCAG AACCAAAAGT GGTAAAGCCC CAGAAAGAGC CTCTAGCAAG ACTTCTCCAC    120
ATTGGAAGGA GTCAGGAGCC TCCCATTTGT CATTCCCAAA GAACAGCAAA TATGAGTATG    180
ACCCTGACAT CTCTCCTCCA CGAAAAAGC AAGCAAAATC CCATTTTGGA GACAAGAAGC    240
AGCTTGATTC CAAAGGTGAC TGCCAGAAAG CAACTGATTC AGACCTTTCT TCTCCACGGC    300
ATAAACAAAG TCCAGGGCAC CAGGATTCTG ATTCAGATCT GTACCTTCCA CGGAATAGAC    360
CTAGACACCG GG                                372
```

(2) INFORMATION FOR SEQ ID NO:130:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 378 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

```
GAATTCGGCC NAAGAGGCCT AGGGTGGGAC AAGAGAGTGA GACTAGAATA TAAATATCCG    60
TAAACAGCAT CTGAGCATTG GTCTTTAACA GGGAGGAGGA ACCACTGGTG TATATTAATT    120
TAGGACACAG GATCATTATA GGGGTNGGGC CAGCTGGTGT TAATGGCATG CAGGCATATG    180
TGATGCCAAC CATGAGGGCT GGAAGAACCA GAAGCCAAAG AAGAATATGA CCGCATCTAT    240
TCTAAAGCTA CTGTGGTGGT TTCTCATGCT TCAGAGTCTC GTAAGTCTCC TGGTTCCTGG    300
TGCTCAGGCC CGTGTAACA CCATCTGATT TCTCATAGCT GGTATAGCT GCCTTTCGCA    360
CTTGGATCTT CAGTCGAG                                378
```

(2) INFORMATION FOR SEQ ID NO:131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 414 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GAATTCGGCC	AAAGAGGCCT	AGGTGCCGCG	GTCCTGTCTT	GCTGTGCCTG	CGGCAGGGGC	60
TCGGAACCAA	TTCATTCTTG	CACGGCCTGG	GGCAGGAGCC	CTTCGAGGGA	GCTCGGTCAC	120
TGTGTTCAG	GTCCTCGCCT	AGAGACCTGC	GAGATGGAGA	AAGAGAGCAC	GAGGCGGCAC	180
AAAGGAAAGC	CCCAGGAGCA	GAGTCTTGCC	CATCTCTCCC	TCTGAGCATC	TCGGACATTG	240
GGACTGGATG	TCTTTCGTCA	CTGGAAAACC	TCAGACTGCC	GACGCTGCGG	GAAGAGTCAT	300
CCCCTCGAGA	GCTCGAGGAC	TCGAGCGGAG	ACCAGGGCCG	GTGCGGTCCC	ACACACCAGG	360
GATCCGAGGA	TCCTTCGATG	CTCTCGCAGG	CCCAGTCCGC	TACCGAGGGT	CGAG	414

(2) INFORMATION FOR SEQ ID NO:132:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

AAGCGTGCTC	GTGCCCCGAT	TNCCNAGGGG	NTCAGTCTGT	NNCGCCCAN	GNCCAAGNCC	60
AAGCCCAAGN	CCNAGNCCAA	GGATCCANNC	CAAGGCCAG	GCTGCAGCCC	CAGCTTCAGT	120
TCCAGCTCAG	GCTCCCACAC	GTACCCAGGC	CCCCACAAAG	GCTTCAGAGN	AGATATCTCT	180
CCCAACATGA	GGACAGAAGG	ACTGGTGCGA	CCCCCACC	CCGCCCTGG	GCTACCATCT	240
GCATGGGGCT	GGGTCCTCCT	GTGCTATTTG	TACAAATAAA	CCTGAGGCAG	TCGAG	295

(2) INFORMATION FOR SEQ ID NO:133:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

ATGGACTTCC	TCTTTTCTGC	CANCCACAC	CCATACATCG	GGAGCCTATA	ATACCCTTCG	60
TTGNTCTCCC	TAACATGTAG	GTGGCGGAGG	GGAGATATAC	AATAGAACAG	ATACCAGACA	120
AGACATAATG	GGCNNAACAA	GACNACACCA	ATTACNCTNC	CTCATTTGATG	GTGGNACATA	180
ACGAGCTAAT	ACTGTANCCC	TAGACNTGAT	AGCCATCATC	ATATCGAAGT	TTCACTACCC	240
TTTTTCCATT	TGCCATCTAT	TGAAGTAATA	ATAGGCGCAT	GCAACTTCTT	TTCTTTTTTT	300
TTCTTTTCTC	TCTCCCCCGN	TGTGTCTCA	CCATATCCGC	AATGACGTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:134:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

```
GAATTCGGCC AAAGAGGCCT ACGTTATCCG CGATGCGTTT CCTGGCAGCT ACATTCCTGC      60
TCCTGGCGCT CAGCACCGCT GCCCAGGCCG AACCGGTGCA GTTCAAGGAC TGCGGTTCTG      120
TGGATGGAGT TATAAAGGAA GTGAATGTGA GCCCATGCCC CACCCAACCC TGCCAGCTGA      180
GCAAAGGACA GTCTTACAGC GTCAATGTCA CCTTCACCAG CAATATTGAG TCTAAAAGCA      240
GCAAGGCCGT GGTGCATGGC ATCCTGATGG GCGTCCCAGT TCCCTTTCCC ATTCCTGAGC      300
CTGATGGTTG TAAGAGTGGA ATTAAGTCCC CTATCCAAAA AGACGTCGAG      350
```

(2) INFORMATION FOR SEQ ID NO:135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

```
GAATTCGGCC AAAGAGGCCT ATTGAATTCT AGACCTGCGT CGACCTCCCT TCCAGCCCCC      60
AGAAAGCTCG GTCACCTGAG TGTCTTCTAG AATCCTGGGG TGCTCCCGGG CCGCTCTCAG      120
AGAAGTGGCA GGTTCACGT TCAGCCGTGT GCGGATCGT GTGGCTTCCA AAGCCTTTTA      180
CAGCCCCCGC CCCCATCCC GTGGTCTGTC TGCAGGAAGT CTCCCGTCTG TGAGAAGCCT      240
CTTTCGAGT CGAG      254
```

(2) INFORMATION FOR SEQ ID NO:136:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

```
GAATTCGGCC AAAGAGGCCT ACTAGAGGGG TCACTGGCCC CGCACGGTGG GGTGGCCGCT      60
CAGGGCCTAG GGAGCAGGTG GGAGGGGCTT GGAGGGCAGA ACAGAGGGCC TGGGGGCTGC      120
TCTGCTGGCC ACCACTGCTT TCTGGTTGAA CCAGATAAGT AGCTGGTGGT GACGGCTGTG      180
GGCCCTGAGT CGGGGAGAGG GAGGCAGAGG GAGCAGTGGG CTGGGCTAGT GGGGACATGA      240
GTGGGTGGTG ATCATGCCTG TGTCGGGGGA GCTGAGGCAG AGAGTGGGGC AGCGAGCATC      300
CCCTGAGGGC AGGAGGAGAG GGGTGGGGAC AGGGAAGGGT CGGGGGTGGT CCCAGCCCTG      360
AAGACAGGAG TGGCGAGGGC AGGTGTGCTC TAGGTGCTTG TCGAGGTGGA CAACATGGGT      420
CGAG      424
```

(2) INFORMATION FOR SEQ ID NO:137:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 705 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

GAATTCGGCC	AAAGAGGCCT	AATGGCGTCC	AGGTCTAAGC	GGCGTGCCGT	GGAAAGTGCG	60
GTTCCGCAGC	CGCCGGATCC	CCCACTCCAG	CGCGACGAGG	AAGAGGAAAA	AGAAAGTCGAA	120
AATGAGGATG	AAGACGATGA	TGACAGTGAC	AAGGAAAAGG	ATGAAGAGGA	CGAGGTCATT	180
GACGAGGAAG	TGAATATTGA	ATTGTAAGCT	TATTCCTTAT	CAGATAATGA	TTATGACGGA	240
ATTAAGAAAT	TACTGCAGCA	GCTTTTCTA	AAGGCTCCTG	TGAACACTGC	AGAACTAACA	300
GATCTCTTAA	TTCAACAGAA	CCATATTGGG	AGTGTGATTA	AGCAAAACGGA	TGTTTCAGAA	360
GACAGCAATG	ATGATATGGA	TGAAGATGAG	GTTTTTGGTT	TCATAAGCCT	TTTAAATTTA	420
ACTGAAAGAA	AGGGTACCCA	GTGTGTGAA	CAAATTCAAG	AGTTGGTTCT	ACGCTTCTGT	480
GAGAAGAACT	GTGAAAAGAG	CATGGTTGAA	CAGCTGGACA	AGTTTTTAAA	TGACACCACC	540
AAGCCTTGGG	GCCTTCTCCT	AAGTGAAGA	TTCATTAATG	TCCCTCCACA	GATCGCTCTG	600
CCCATGTACC	AGCAGCTTCA	GAAAGAACTG	TCGGGGGCAC	ACAGAACCAA	TAAGCCATGT	660
GGGAAGTGCT	ACTTTTACCT	TCTGATTAGT	AAGACATTG	TCGAG		705

## (2) INFORMATION FOR SEQ ID NO:138:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 350 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

GAATTCGGCC	AAAGAGGCCT	ACCCAGCTCA	GAATCTTGCT	GCTCGGCCCC	CAGGAGAGCA	60
ACAACACAAC	GGGAACGATG	TGGAAGGTGT	CAGCTCTGCT	CTTCGTTTTG	GGAAGCGCGT	120
CGCTCTGGGT	CCTGGCAGAA	GGAGCCAGCA	CAGGCCAGCC	AGAAGATGAC	ACTGAGACTA	180
CAGGTTTGGA	AGGCGGCGTT	GCCATGCCAG	GTGCCGAAGA	TGATGTGGTG	ACTCCAGGAA	240
CCAGCGAAGA	CCGCTATAAG	TCTGGCTTGA	CACTCTGGT	GGCAACAAGT	GTCAACAGTG	300
TAACAGGCAT	TCGCATCGAG	GATCTGCCAA	CTTCAGAAAG	CCCAGTCGAG		350

## (2) INFORMATION FOR SEQ ID NO:139:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 450 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

GAATTCGGCC	AAAGAGGCCT	AGTGGACAGG	AAGTAGAATT	TATTGGTGAG	TATTAAGAGG	60
GGGGCAGCAC	ATTGGAAGCC	CTCATGAGTG	CAGGGCCCGT	CACCTGTCCA	GAGGGCCACG	120
ACTGGGGATG	TACTTGACCC	CACAGCCATC	TGGGATGAGC	CGCTTTTCAG	CCACCATGTC	180
TTCAAATTCA	TCAGCATTGA	ACTTGGTGAA	GCCCCACTTC	TTTGAGATGT	GGATCTTCTG	240
GCGGCCAGGA	AACTTGAAC	TGGCCCTGCG	CAGGGCCTCA	ATCACATGCT	CCTTGTCTG	300
CAGCTTGGTG	CGGATGGACA	TGATAACTTG	GCCAATGTGA	ACCCTGGCCA	CAGTGCCCTG	360
GGGCTTTCCA	AAGGCACCTC	GCATGCCTGT	TTGGAGCCTG	TCAGCCCCAG	CACAGGACAA	420
CATCTTGTG	ATGCGGATGA	CGTGGTCGAG				450

## (2) INFORMATION FOR SEQ ID NO:140:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 585 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

```
GAATTCGGCC AAAGAGGCCT ATGAAGATCA GCTATTAGAA GAGAAAGATC AGTTAAGTCC      60
TTTGGACCTG ATCAGCTTGA TACAAGAACT ACTGATTTCa ACTTCTTTGG CTTAATTCTC      120
TCGGAAACGA TGAAATATAC AAGTTATATC TTGGCTTTTC AGCTCTGCAT CGTTTGGGT      180
TCTCTTGGCT GTTACTGCCA GGACCCATAT GTAAAAGAAG CAGAAAACCT TAAGAAATAT      240
TTAATGCAG GTCATTCAGA TGTAGCGGAT AATGGAACCT TTTTCTTAGG CATTTTGAAG      300
AATTGGAAG AGGAGAGTGA CAGAAAAATA ATGCAGAGCC AAATTGTCTC CTTTACTTTC      360
AACTTTTAA AAACTTTTAA AGATGACCAG AGCATCCAAA AGAGTGTGGA GACCATCAAG      420
GAAGACATGA ATGTCAAGTT TTTCAATAGC AACAAAAAGA AACGAGATGA CTTGAAAAG      480
CTGACTAATT ATTCGGTAAC TGACTTGAAT GTCCAACGCA AAGCAATACA TGAACATC      540
CAAGTGNTGG CTGAACTGTC GCCAGCAGCT AAAACAGGGG TCGAG      585
```

(2) INFORMATION FOR SEQ ID NO:141:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 471 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

```
GAATTCGGCC AAAGAGGCCT ATTGGAGTTT GAGTATAGTA AATTATGATC CTAAATATT      60
TGAGAGTCAG GATGAAGCAG ATCTGCTGTA GACTTTTCAG ATGAAATTGT TCATTCTCGT      120
AACCTCCATA TTTTCAGGAT TTTTGAAGCT GTTGACCTTT TCATGTTGAT TATTTTAAAT      180
TGTGTGAAAT AGTATAAAAA TCATTGGTGT TCATTATTG CTTTGCCTGA GCTCAGATCA      240
AAATGTTTGA AGAAAGGAAC TTTATTTTGT CAAGTTACGT ACAGTTTTTA TGCTTGAGAT      300
ATTTCAACAT GTTATGTATA TTGGAACCTC TACAGCTTGA TGCCTCCTGC TTTTATAGCA      360
GTTTATGGGG AGTCACTTGA AAGAGCGTGT GTACATGTAT TTTTTTCTN GGCAAACATT      420
GAATGCAAAC GTGTATTTTT TTAATATAAA TATATAACTT CCTGCGTCGA G      471
```

(2) INFORMATION FOR SEQ ID NO:142:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 477 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

```
GAATTCGGCC AAAGAGGCCT ATGTTTGGCA ACTGGGGTGA AGGGATTGCC CTCCCCCTGC      60
TGGGATCCC CAGCCCTC CGGTCTGGCA GGAAGGGGGC AGCCTGCAAC CCCCAGGGC      120
AGGTGTGGGG CTGCCAGATG CTCCAGGCAG GGGGCCAGAA GGGGCTCACA AAGGCTTGCC      180
CTCCAGGGAG ATGACGGCAC TGCCCCCAG CTTCTCTGCC AGGGTGCAGC GGTCTTGAC      240
CTCCTCGTAG CAGTTTGCTT GCAATTCATG CTTGATCCCT GTCAGCTTCT TCTTGATGGC      300
GTCCTTGAG CTGGCATAAA TCATTTTGCT CTTAAGGGGS GCAGACTCGG GGGCCAGAA      360
GATAAACACC AGATCCTCCT TCTTGCTCTC CYTGGTCTCA TAGGTTGCAT CATAGAGGGC      420
```

ATAGCGGCAG TCCTTATCTG GCAGCATCTT GACAAAGGTG GCGTAGGGAT CGTCGAG 477

(2) INFORMATION FOR SEQ ID NO:143:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 411 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

GAATTCGGCC	CAAAGAGGCC	YMAAAGATCA	GCTATTAGAA	GAGAAAGATC	AGTTAAGTCC	60
TTTGGACTTG	ATCAGCTTGA	TACAAGAACT	ACTGATTCA	ACTTCTTTGG	CTTAATTCTC	120
TCGGAAACGA	TGAAATATAC	AAGTTATATC	TTGGCTTTTC	AGCTCTGCAT	CGTTTTGGGT	180
TCTCTTGGCT	GTTACTGCCA	GGACCCATAT	GTAAAAGAAG	CAGAAAACCT	TAAGAAATAT	240
TTTAATGCAG	GTCATTGAGA	TGTAGCGGAT	AATGGAACTC	TTTTCTTAGG	CATTTTGAAG	300
AATTGGAAAG	AGGAGAGTGA	CAGAAAAATA	ATGCAGAGCC	AAATTGTCTC	CTTTTACTTC	360
AAACTTTTAA	AAAACTTTAA	AGATGACCAG	AGCATCCAAA	AGAGTGTCGA	G	411

(2) INFORMATION FOR SEQ ID NO:144:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 427 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

GAATCGGCCC	AAAGAGGCCT	ACTGAAGATC	AGCTATTAGA	AGAGAAAGAT	CAGTTAAGTC	60
CTTTGGACCT	GATCAGCTTG	ATACAAGAAC	TACTGATTTC	AACTTCTTTG	GCTTAATTCT	120
CTCGGAAACG	ATGAAATATA	CAAGTTATAT	CTTGGCTTTT	CAGCTCTGCA	TCGTTTTGGG	180
TTCTCTTGGC	TGTTACTGCC	AGGACCCATA	TGTAAGAGAA	GCAGAAAACC	TTAAGAAATA	240
TTTAATGCA	GGTCATTGAG	ATGTAGCGGA	TAATGGAACT	CTTTTCTTAG	GCATTTTGAA	300
GAATTGGAAA	GAGGAGAGTG	ACAGAAAAAT	AATGCAGAGC	CAAATTGTCT	CCTTTTACTT	360
CAAACTTTT	AAAACTTTA	AAGATGACCA	GAGCATCCAA	AAGAGTGTGG	AGACCATCAA	420
GGTCGAG						427

(2) INFORMATION FOR SEQ ID NO:145:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 598 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

GAATTCGGCC	AAAGAGGCCT	AGAGAAGATA	AAACTGGACA	CTGGGGAGAC	ACAACTTCAT	60
GCTGCGTGGG	ATCTCCGAGC	TACCTGCAGT	GGCCACCATG	TCTTGGGTCC	TGCTGCCTGT	120
ACTTTGGCTC	ATTGTTCAAA	CTCAAGCAAT	AGCCATAAAG	CAAACACCTG	AATTAACGCT	180
CCATGAAATA	GTTTGTCTTA	AAAACTTCA	CATTTTACAC	AAAAGAGAGA	TCAAGAACAA	240

CCAGACAGAA	AAGCATGGCA	AAGAGGAAAG	GTATGAACCT	GAAGTTCAAT	ATCAGATGAT	300
CTTAAATGGA	GAAGAAATCA	TTCTCTCCCT	ACAAAAAACC	AAGCACCTCC	TGGGGCCAGA	360
CTACACTGAA	ACATTGTACT	CACCCAGAGG	AGAGGAAATT	ACCACGAAAC	CTGAGAACAT	420
GGAACACTGT	TACTATAAAG	GAAACATCCT	AAATGAAAAG	AATTCTGTTG	CCAGCATCAG	480
TACTTGTGNC	GGGTTGAGAG	GATACTTCAC	ACATCATCAC	CAAAGATACC	AGATAAAACC	540
TCTGAAAAGC	ACAGACGAGA	AAGAACATGC	CGTCTTTACA	TCTAACCAGG	AGGTCGAG	598

## (2) INFORMATION FOR SEQ ID NO:146:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 238 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

GAATTCGGCC	AAAGAGGCCT	AGAGCTAAGG	CGAAGACCAA	GACACGTGAC	ATTCATGCTT	60
TGGTGTGGGG	TCCAAAGCAC	TCTTATTTAA	CATAGATTCC	AAACTTTTTA	CACCCATGGG	120
GTCAATATA	CTCTTTATTT	TACCCTTCAT	TATTTTAAAA	ATCACAAACAT	CACCCATTGC	180
CCCCGTGTCC	AAAGGAATCG	CTTGTAATAA	ATCAGCAGGT	CTAGAATTCA	ATCGGGAG	238

## (2) INFORMATION FOR SEQ ID NO:147:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 304 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

GAATTCGGCC	AAAGAGGCCT	AGAGCTAAGG	CGAAGACCAA	GACACGTGAC	ATTCATGCTT	60
TGGTGTGGGG	TCCAAAGCAC	TCTTATTTAA	CATAGATTCC	AAACTTTTTA	CACCCATGGG	120
GTCAATATA	CTCTTTATTT	TACCCTTCAT	TATTTTAAAA	ATCACAAACAT	CACCCATTGC	180
CCCCGTGTCC	AAAGGATTCC	CTTGTAATAA	ATCAGCAGGT	CTAGAATTCA	ATCGGGAGGT	240
TCTCCCTATA	GTGAGTCGTA	TTAATTTTCAG	AGGAGTATTT	AGAAGAGAAG	CTGAAGCTGT	300
CGAG						304

## (2) INFORMATION FOR SEQ ID NO:148:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 397 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

GAATTCGGCC	AAAGAGGCCT	ACGACAGTTG	GTGTAAAGGA	AAACTTCTGA	GCTCCGTCAG	60
TTCACCTGGT	ACATTGGAAT	TAAAGTGCTT	GGATGTTTTT	CCCCCACTTT	AAAAAACTT	120
TTGAGGTTTT	TTTTTTTTTT	TGTCTTTTAA	AAACATCGTA	ACATTAAACAC	ATGGCCGTTT	180
ACCGTCCCCC	AGCGATGGGA	GCTGGCCTGG	GGCCAGGGT	CCTCCAGGAT	CTCACTCAT	240

TCACAGTAAC GGTTCGTGACC AGTCCTCCAG GTCGCACGTG GATGCGACAG GGGTGGGGAG	300
GGAGGAGGAA GTGACTGTCC CACCTCTGCA GGACCATGGG AGTGGGCAAG GTGTTCTCCG	350
GGGCGCACCC CTGAACCCAG GGGTGCTGCA GGACNTG	397

## (2) INFORMATION FOR SEQ ID NO:149:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 592 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

GAATTCGGCC AAAGAGGCCT ATAAGAATTT AAGATGCATT TTTGCATTGG CTATATTTCT	60
TTAAATTCTA GATAGTTATT TTCAAGTGTT GGTAAACATA AATCTTAGGC TTAGGAACCA	120
TTGGATTAGT AACAGCATTG TGCTAATCAA AACTTTAAAA AAATGAGTTC AAAATTGTTA	180
TAATGTAATT TTATAGATT TCTTTTATCC TCAACCTGCA GAAGCCGGAA AGTGAGGCAC	240
ATAGCCCCAC ATAGGCAGAA ATTAAAGCCT AGGCAATAAC TTAGTGAAAA TGGAAATTTT	300
AGAACATTCC ACTTCTTGTT TAGTACAATT TTATGGCCAT GGTGCTAGCT AATGGAAATG	360
GCTAGTATAC TATTATAGG CCAGCAATAT TTTGGTGAAT TTAAGCGAAA CTATGCTCAG	420
TATCATTGAA ATGGGGGTGG GGTGGGCTTG AGACATGAAA TCAATCATAC AAAGTCAAAA	480
ACTATTTTAA CCCAGGAATA AGTTAAATTC CTGTCACCCA GTCGAGGTTC TCCCTATAGT	540
GAGTCGTATT AATTCAGAG GAGTATTTAG AAGAGAAGCT GAAGCTGTCTG AG	592

## (2) INFORMATION FOR SEQ ID NO:150:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 348 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

GAATTCGGCC AAAGAGGCCT AGATGATGAT ATGTTTAACC ACCAAGTTCC TTATTTGTGG	60
CTGATTTACT GCCTTTGTCA TCCTCTTCAA TCAAGTATTA AAGAAACAGT GGAGGCATAT	120
GAGGCAGCAT TAGGGGTGGC TATGAGATGT GATATAGTAC AGAAGATATG GATGGATTAT	180
CTTGTCTTTG CAAATAATAG AGCTGCTGGA TCCAGAAACA AAGTTCAAGA ATTCAAATTT	240
TTTACTGATT TAGTGAATAG ATGTTTGTTT ACAGNCCCTG CCCGATACCC CATTCCTTTT	300
AGCAGNGCTG ATTACTGGTC CAACTATGAA TTTCATAATA GGGTCGAG	348

## (2) INFORMATION FOR SEQ ID NO:151:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 455 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

GAATTCGGCC AAAGAGGCCT ACAGAATTGA GAGTTTGTTT TTACACACAA GTTTAATGCC	60
---	----

ACCTTCCTCT	GTCTGCCATG	GACCAACAAG	CAATATATGC	TGAGTTAAAC	TTACCCACAG	120
ACTCAGGCCC	AGAAAGTTCT	TCACCTTCAT	CTCTTCCTCG	GGATGTCTGT	CAGGGTTCAC	180
CTTGCCATCA	ATTGCCCCTG	AAACTTAGCT	GTGCTGGGAT	TATTCTCCTT	GTCTTGGTTG	240
TTACTGGGT	GAGTGTTC	GTGACATCCT	TAATACAGAA	ATCATCAATA	GAAAAATGCA	300
GTGTGGACAT	TCAACAGAGC	AGGAATAAAA	CAACAGAGAG	ACCGGGTCTC	TTAAACTGCC	360
CAATATATTG	GCAGCAACTC	CGAGTCGAGG	TTCTCCCTAT	AGTGAGTCGT	ATTAATTTCA	420
GAGGAGTATT	TAGAAGAGAA	GCTGAAGCTG	TCGAG			455

## (2) INFORMATION FOR SEQ ID NO:152:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 348 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

GAATTCGGCC	AAAGAGGCCT	AAAAATCTCT	TATTAAAGGT	AGAACCCTCTG	CTAGCCAGAC	60
AACATATTA	TTTGCTCAA	CAAAACAGTG	GACATTTCT	GAGGGGCTAC	GATTTACCAG	120
AACACATCAG	CAATCCAGAA	GATTACCACA	GATCTATCCG	CCATTCTCT	ATTCAAGAAT	180
GAAAAATGTC	AAGATGAGTG	GTTTTCTTTT	TCCTTTTTTT	TTTTTTTTTT	TTTGTATACG	240
GGGATACGGG	GTCTTGCTCT	GTCTCCAGG	CTGGAGTGCA	GTGACACAAT	CTCAGCTCAC	300
TGTGACCTCC	GCCTCTGGG	TTCAAGAGAC	TCTCTGCCT	CAGTCGAG		348

## (2) INFORMATION FOR SEQ ID NO:153:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 360 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

GAATTCGGCC	AAAGAGGCCT	ACCTTAAAGC	CGTATACTTA	TGAATTTAAA	GTGGAAAAAT	60
TTTTTGTTGG	CCCTGGCCCC	CTTGCCAGAT	TCCAGCTGGC	CGTCAGTGCT	CGCGTGCTC	120
TCTGAAGAGG	CTCTGCGGTT	CTGGTCCCTG	TGCCTGAGCT	CCAGGTGCCG	CCAGACATTA	180
TACAACTGTA	AGGCTGAGAT	CTTTCCCCCT	TCGGGAATGG	AGTATTGCAG	AACAGGCTCC	240
CTCTGCTCCC	TGGAGGTTT	GATCACGAGG	CTCTCAGACC	TCTTGGAGGT	GGATAAAGAT	300
GAAGCACTGA	CTGAATCTGA	TGAGCATTTT	TCGACAAAGC	TTATGTATGA	AGTTGTGCGAG	360

## (2) INFORMATION FOR SEQ ID NO:154:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 582 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

GAATTCGGCC	AAAGAGGCCT	ACTCATCTTG	GTCCACAGCC	AGGCCCCCCC	AAAACCAAAG	60
------------	------------	------------	------------	------------	------------	----

CCCCCTCAAG	TCCTGGGGTC	CCAGCCTGTG	CCCCCAGCTT	CCTGCCCACC	CAGCCCCGAG	120
CATTCTCACA	CAGAGAAAGA	ACAAGCAAGG	GCTCCAGGGG	GACAGGATGG	GGCAGGGCAT	180
ACAGTGGGGG	GTGGGGGGGC	AGCTGGGAGG	AGGGAGGGAC	AAAACAAAAC	ATTTTCCTTT	240
GGGTTTTTTT	TTTCTTTCTT	TTTTCTCCCC	TTTACTCTTT	GGGTGGTGTT	GCTTTTCCTT	300
TCCTTTTCCC	TTTGAGATTT	TTTTGTGTGT	GTTTCCTTTT	TGTATTTTAC	TGATATCACC	360
AGGATAGTTT	ACTCTCCTTC	TAGCTTTCTG	CTTACCGCAC	ACTGGATAAC	ACACACATAC	420
ACACCCACAA	AAATGCTCAT	GAACCCAATC	CGGAGAAGGT	TCCAGCAGGT	CCCCCACCTT	480
CCCTCCTCC	TCCTACTTCT	CCTCTTGACA	GCGAGGACAG	GAGGGGGACA	AGGGGACACC	540
TGGGCAGACC	CGCCGGCTCT	CCCCCCACCC	CACCCCGTCG	AG		582

## (2) INFORMATION FOR SEQ ID NO:155:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 263 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

GAATTCGGCC	AAAGAGGCCT	AGAAATAAAA	CATTCTACAC	CGTCTCCTAC	CAAATATTCA	60
CTATCACCAA	GTAAAAGTTA	CAAGGTAAAC	AGGAAAGAAT	GGAATCATT	CATTGTGAAA	120
TTGTTTCTGT	TCTAAGTGTT	TTAAATGCTG	TTTGTATTAT	TTTATTTTTT	TTTTCAGTAT	180
TCTCCCGAAA	CACCACCTCG	ATGGACAGAA	GATCGGAATT	CTTACTGAA	TATGATTGTC	240
CAACAAGTAG	AGCCATGTC	GAG				263

## (2) INFORMATION FOR SEQ ID NO:156:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 555 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

GAATTCGGCC	AAAGAGGCCT	AATTTCTCAG	CTCCAAGCAT	TAGGTAAACC	CACCAAGCAA	60
TCCTAGCCTG	TGATGGCGTT	TGACGTCAGC	TGCTTCTTTT	GGGTGGTGCT	GTTTTCTGCC	120
GGCTGTAAAG	TCATCACCTC	CTGGGATCAG	ATGTGCATTG	AGAAAGAAGC	CAACAAAACA	180
TATACTGTGT	AAAATTTAGG	TCTCAGTGAA	ATCCCTGACA	CTCTACCAA	CACAACAGAA	240
TTTTTGGAAT	TCAGCTTTAA	TTTTTGCCT	ACAATTCACA	ATAGAACCCT	CAGCAGACTC	300
ATGAATCTTA	CCTTTTGGGA	TTTAACTAGG	TGCCAGATTA	ACTGGATACA	TGAAGACACT	360
TTTCAAAGCC	ATCATCAATT	AAGCACACTT	GTGTTANCTG	GAAATCCCCT	GATATTTCATG	420
GCAGAAACAT	CGCTTAATGG	GCCCAAGTCA	CTGAAGCATC	TTTTCTTAAT	CCANNCGGGA	480
ATATCCAATC	TCGAGTTTAT	TCCAGTGCAC	AATCTGGAAA	ACTTGGAAAG	CTTGTATCTT	540
GGAAGCAACG	TCGAG					555

## (2) INFORMATION FOR SEQ ID NO:157:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 414 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

GAATTCGCCC	AAAGAGGCCT	AGATGATGAT	ATGTTTAACC	ACCAAGTTCC	TTATTGTGG	60
CTGATTTACT	GCCTTTGTCA	TCCTCTTCAA	TCAAGTATTA	AAGAAACAGT	GGAGGCATAT	120
GAGGCAGCAT	TAGGGGTGGC	TATGAGATGT	GATATAGTAC	AGAAGATATG	GATGGATTAT	180
CTTGTCTTTG	CAAATAATAG	AGCTGCTGGA	TCCAGAAACA	AAGTTCAAGA	ATTCAAATTT	240
TTTACTGATT	TAGTGAATAG	ATGTTTGGTT	ACAGNCCCTG	CCCATAACCC	CATTCCCTTT	300
AGCAGNGCTG	ATTACTGGTC	CAACTATGAA	TTTCATAATA	GGGTCGAGGT	TCTCCCTATA	360
GTGAGTCGTA	TTAATTTTCT	AGGAGTATTT	AGAAGAGAAG	CTGAAGCTGT	CGAG	414

## (2) INFORMATION FOR SEQ ID NO:158:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 590 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

GAATTCGCCC	NAAGAGGCCT	AAGCAGATGC	TGATCTCATT	ATGCTTGGCC	TTGCCACACA	60
TGAACCGAAC	TTTACCATT	TTAGAGAAGA	ATTCAAACCA	AACAAGCCCA	AACCATGTGG	120
TCTTTGTAAT	CAGTTTGGAC	ATGAGGTCAA	AGATTGTGAA	GGTTTGCCAA	GAGAAAAGAA	180
GGGAAAGCAT	GATGAACTTG	CCGATAGTCT	TCCTTGTGCA	GAAGGAGAGT	TTATCTTCCT	240
TGGGCTTAAT	GTTCTTCGTG	AGTATTTGGA	AAGAGAACTC	ACAATGGCCA	GCCTACCATT	300
CACATTTGAT	GTTGAGAGGA	GCATTGATGA	CTGGGTTTTC	ATGTGCTTCT	TTGTGGGAAA	360
TGACTTCCTC	CCTCATTTGC	CATCGTTAGA	GATTAGGGAA	AATGCAATTG	ACCGTTTGGT	420
TAACATATAC	AAAAATGTGG	TACACAAAAC	TGGGGGTTAC	CTTACAGAAA	GTGGTTATGT	480
CAATCTGCAA	AGAGTACAGA	TGATCATGTT	AGCAGTTGGT	GAAGTTGAGG	ATAGCATTTT	540
TAAAAAGAGA	AAGGATGATG	AGGACAGTTT	TAGAAGACGA	CAGGGTCGAG		590

## (2) INFORMATION FOR SEQ ID NO:159:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

GAATTCGCCC	AAAGAGGCCT	AGACGGGCCT	CGGTCAGCAG	CACGGGGTGC	TCCTCGGGAG	60
CCACACGCAG	CTCATTGTAG	AAGGTGTGGT	GCCAGATTTT	CTCCATGTCG	TCCCAGTTGG	120
TGACGATGCC	GTGCTCGATG	GGGTACTTCA	GGGTAGGAT	GCCTCTCTTG	CTCTGGGCCCT	180
CGTCGCCAC	ATAGGAATCC	TTCTGACCCA	TGCCACCAT	CACGCCCTGG	TGCCTGGGGC	240
GCCCCACGAT	GGAGGGGAAG	ACGGCCCCGG	GGGCATCGTC	CCCCGCGAAG	CCGGCCTTGC	300
ACATGCCGGA	GCCGTTGTCT	AG				322

## (2) INFORMATION FOR SEQ ID NO:160:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

GGGTTGACAA ATATGGACTT CCTCTTTTCT GCCNNCCCAA ACCCATACAT CGGGATTTCCT	60
ATAATACCTT CGTTGGTCTC CCTAACATGT AGGTGGCGGA GGGGAGATAT ACAATAGANC	120
AAGATACCAG ACAAGACATA ATGGGCTAAA CAAGACTACA CCAATTACAC TGCCTCATTG	180
ATGGTGGTAC ATAACGAACT AATACTGTAG CCCTAGACTT GATAGCCATC ATCATATCGA	240
AGTTTCACTA CCCTTTTTC ATTTGCCATC TATTGAAGTA ATAATAGGCG CATGCAACTT	300
CTTTTCTTTT TTTTCTTTT CTCTCTCCCC CGTTGTTGTC TCACCATAG	349

(2) INFORMATION FOR SEQ ID NO:161:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 688 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

GAATTCGGCC AAAGAGGCCT ACTATAAGAG AGATCCAGCT TGCCTCCTCT TGAGCAGTCA	60
GCAACAGGGT CCGTCTCTTG ACACCTCAGC CTCTACAGGA CTGAGAAGAA GTAAAACCGT	120
TTGCTGGGGC TGGCCTGACT CACCAGCTGC CATGCAGCAG CCCTTCAATT ACCCATATCC	180
CCAGATCTAC TGGGTGGACA GCAGTGCCAG CTCTCCCTGG GCCCCTCCAG GCACAGTTCT	240
TCCCTGTCCA ACCTCTGTGC CCAGAAGGCC TGGTCAAAGG AGGCCACCAC CACCACCGCC	300
ACCGCCACCA CTACCACCTC CGCCGCCGCC GCCACCACTG CCTCCACTAC CGCTGCCACC	360
CCTGAAGAAG AGAGGGAACC ACAGCACAGG CCTGTGTCTC CTGTGTATGT TTTTCATGGT	420
TCTGGTTGCC TTGGTAGGAT TGGGCCTGGG GATGTTTCAG CTCTTCCACC TACAGAAGGA	480
GCTGGCAGAA CTCGAGAGT CTACCAGCCA GATGCACACA GCATCATCTT TGGAGAAGCA	540
AATAGGCCAC CCCAGTCCAC CCCCTGAAAA AAAGGAGCTG AGGAAAGTGG CCCATTTAAC	600
AGGCAAGTCC AACGTCGAGG TTCTCCCTAT AGTGAGTCGT ATTAATTCA GAGGAGTATT	660
TAGAAGAGAA GCTGAAGCTG TCGAGACA	688

(2) INFORMATION FOR SEQ ID NO:162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:

GAATTCGGCC AAAGAGGCCT AATGATTTTG ATAGGAAGAA TGTCAGCCCA GGTTCCCATG	60
AACATGACCA TCACAGGTTG TATGATGACG TTTTACAGGA CTACGCCGGC TGTGCTGTTT	120
TGGCAGTGGA TTAACAGTC CTTCAATGCC GTCGTCAATT ACACCAACAA AAGTGTGCGA	180

(2) INFORMATION FOR SEQ ID NO:163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 600 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:

```

GAATTCGGNC AAAGAGGCCT ACCACCTTCT CTGCCAGAAG ATACCATTTC AACTTTAACA      60
CAGCATGATC GAAACATACA ACCAAACTTC TCCCCGATCT GCGGCCACTG GACTGCCCAT      120
CAGCATGAAA ATTTTATGT ATTTACTTAC TGTTTTCTT ATCACCAGAG TGATTGGGTC      180
AGCACTTTTT GGTGTGTATC TTCATAGAAG GTTGGNCAAG ATAGAAGATG AAAGGRAWYY      240
TYMATKRARR WTTTKKKWTY MWKRAAACS RWMCARRRRW KSMAMMMRG RRRRRRWCC      300
YYWWCYTWC YTKRWSYTK KRRGRRRTW AAARCCMRKT TKGWRGGSYT TKKKRWGRW      360
TTWTWWKKTW AAMMAMRRRG RRRMSRCGR RARRAAAMMR CYTTTGNAT NCNCCNAGGT      420
GATCAGAATC CTCACATTGC GGCACATGTC ATAAGTGAGG CCANCAGTAA AACACATCT      480
GTGTTACAGT GGGCTGANAA AGGATACTAC ACCATGAGCA ACAACTTGGT AACCTGGAA      540
AATGGGAAAC AGCTGNCCGT TAAAGACAA GGACTCTATT ATATCTATGC CCAAGTCGAG      600

```

(2) INFORMATION FOR SEQ ID NO:164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:

```

NCCTGTTTCA TTAATTAAAT TTCCCGAAAG AACCTGAGTC ATTTCCNAC ATGAGAATAC      60
TAGAAGAATG ACCAAGACTT GCGAGACGCG ATTTNCCGGG TGGTGCGAAC AATAGANCGA      120
CCATGACCTT GAAGGTGAGA CGCGCATAAC CGCTAGAGTA CTTTGAAGAG GAAACANCAA      180
TAGGTTGCTA CCAGTATAAA TAGACAGGTA CATAACAAC TGGAAATGGT TGTCTGTTTG      240
AGTACGCTTT CAATTCATTT GGGTGTGCAC TTTATTATGT TACAATATGG AAGGGAACCT      300
TACACTTCTC CTATGCACAT ATATTAATTA AAGTCCAATG CTAGTAGAGA AG      352

```

(2) INFORMATION FOR SEQ ID NO:165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

```

GAATTCGGCC AAAGAGGCCT AAAGAAGACA AAGATGATAG GCGGCACAGA GATGACAAAA      60
GAGATTCCAA GAAAGAGAAA AAACACAGTA GAAGCAGAAG CAGAGAAAGG AAACACAGAA      120
GTAGGAGTCG AAGTAGAAAT GCAGGGAAC GAAGTAGAAG TAGAAGCAA GAGAAATCAA      180
GTAAACATAA AAATGAAAGT AAAGAAAAAT CAAATAAACG AAGTCGAAGT GGCAGTCAAG      240
GAAGAACTGA CAGTGTGTA AAATCAAAAA AACGGGAACA TAGTCCAGC AAAGAAAAAT      300
CTAGAAAGCG TAGTAGAAGC AAAGAACGTT CCCACAAACG AGATCAGAGT GATAGTAAGG      360
ACCAGTCAGA CAAACATGAC CGTCGAG      387

```

(2) INFORMATION FOR SEQ ID NO:166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:

```
GAATTCGGCC AAAGAGGCCT AAGGAAGTTG GATGTTTGA TTTTACTGTT TATAGATGTT    60
AGATTGTACA GATTTCCTG TATTCTCAC CATATCTAAT GATACTTTT TCATTAGATT    120
GGTCTTCAAG AACAGTATTA GTTATAATTA TTTGGTTAT TCAGTATATA GTTAGCTCTT    180
ACAGTTTAGC TTTATTCACC ATATTTATAC TGTGGATTCA CAGCGAGAGG TAGAGGTTAT    240
TCCAGGAGAG TTGATGACCT TCATTAAAG TCCAATAAA ATCAGTAGTA GAAACATAAG    300
AAAACATCTT TGCAATATTT ACTTTGTTT CTGTTTGCCG TAAATAGTAA CATTGTTTTT    360
TTTTATTTG TGTGTTTAT AAAACAGTTG CATTCACAAT ATTATTGGCC TGAGATATTG    420
ATGATATTGT GATGGTATGA AAATGTGTAC ATCCCTGTG CAACATCAGA TTTGCAGGAA    480
AAATGAAGCA CTTACTGAAA TCGTGTGTAC TCGTCGAG    518
```

(2) INFORMATION FOR SEQ ID NO:167:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 393 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

```
GAATTCGGCC AAAGAGGCCT AGGACAAAC AAAACATTTT CCTTTGGGTT TTTTCTTCT    60
TTCTTTTTTC TCCCCTTAC TCTTTGGGTG GTGTTGCTT TCCTTCCTT TCCCCTTGA    120
GATTTTTTTG TTGTTGTTT CTTTTGTAT TTTACTGATA TCACCAGGAT AGTTTACTCT    180
CCTTCTAGCT TTCTGCTTAC CGCACACTGG ATAACACACA CATACACACC CACAAAATG    240
CTCATGAACC CAATCCGAG AAGGTTCCAG CAGGTCCCCC ACCCTCCCCT CCTCTCCTA    300
CTTCTCCTCT TGACAGCGAG GACAGGAGGG GGACAAGGGG ACACCTGGGC AGACCCGCCG    360
GCTCTCCCCC CACCCACCC CGGCACCCTC GAG    393
```

(2) INFORMATION FOR SEQ ID NO:168:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 421 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

```
GAATTCGGCC AAAGAGGCCT ACGAAGTTAC AGAACTGAGA TTCTCGGGTC CCAGACACGC    60
ACCTATGTAC CTCCCACTGG TGTCCCTGCA AAGCCTGGCG CTTTGTGACAT CAATAATAAA    120
AGTGGCAGGG CTGAGCAACA CCTCAGGAGT TACTCTGGAA GGATGGAGGA GTTATGTAAC    180
ACACGAGAGT CAGGAGCCCT GTGGAAGTGC TTTTATTAGC AGTAAGGCTG ATCGTACAAA    240
AAATCTCAG AGCTTCATAG GACAAGGTAG TACAAGTATG GATGATACAG GACTGAGGAA    300
CGGGGGACGG CTCAAAGAA ATCAACATCG TCTGGGGCAT CCAGGTCCCG ATATTCCACA    360
ATGGCCCTTG GGTCTCCACG AACCATCCTG TGAGGTGAGA GGTACAGGAT CAGACCTCGA    420
G    421
```

(2) INFORMATION FOR SEQ ID NO:169:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 365 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:

TAGGAGATCT	GGATGGCATC	TACTTCGTAT	GACTATTGCA	GAGTGCCCAT	GGAAGACGGG	60
GATAAGCGCT	GTAAGCTTCT	GCTGGGGATA	GGAATTCTGG	TGCTCCTGAT	CATCGTGATT	120
CTGGGGGTGC	CCTTGATTAT	CTTCAACATC	AAGGCCAACA	GCGAGGCCTG	CCGGGACGGC	180
CTTCGGGGAG	TGATGGAGTG	TCGCAATGTC	ACCCATCTCC	TGCAACAAGA	GCTGACCGAG	240
GCCCCAGAAGG	GCTTTCAGGA	TGTGGAGGCC	CAGGCCGCCA	CCTGCAACCA	CACTGTGATG	300
GCCCTAATGG	CTTCCCCTGG	ATGCAGAGAA	GGCCCAAGGA	CAAAGAAAG	TGGAAGNATC	360
TCGAG						365

(2) INFORMATION FOR SEQ ID NO:170:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 463 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:

GAATTCGGCC	AAAGAGGCCT	AACACAGGAA	ACATTACAAT	TGAACAATGC	CTCAGCTATA	60
CATTTACATC	AGATTATTGG	GAGCCTATTT	GTTCATCATT	TCTCGTGTTT	AAGGACAGAA	120
TCTGGATAGT	ATGCTTCATG	GCACTGGGAT	GAAATCAGAC	TCCGACCAGA	AAAAGTCAGA	180
AAATGGAGTA	ACCTTAGCAC	CAGAGGATAC	CTTGCCTTTT	TTAAAGTGCT	ATTGCTCAGG	240
GCACTGTCCA	GATGATGCTA	TTAATAACAC	ATGCATAACT	AATGGACATT	GCTTTGCCAT	300
CATAGAAGAA	GATGACCAGG	GAGAAACCAC	ATTAGCTTCA	GGGTGTATGA	AATATGAAGG	360
ATCTGATTTT	CAGTGCAAAG	ATTCTCCAAA	AGCCCAGCTA	CGCCGGACAA	TAGAATGTTG	420
TCGGACCAAT	TTATGTAACC	AGTATTTGCA	ACCCACGCTC	GAG		463

(2) INFORMATION FOR SEQ ID NO:171:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 353 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:

GAATTCGGCC	AAAGAGGCCT	ACTTAGCTTC	AAATCCCTAC	TCCTTCACTT	ACTAATTTTG	60
TGATTTGGAA	ATATCCGCGC	AAGATGTTGA	CGTTGCAGAC	TTGGCTAGTG	CAAGCCTTGT	120
TTATTTTCCT	CACCACTGAA	TCTACAGGTG	AACCTCTAGA	TCCATGTGGT	TATATCAGTC	180
CTGAATCTCC	AGTTGTACAA	CTTCATTCTA	ATTTCACTGC	AGTTTGTGTG	CTAAAGGAAA	240
AATGTATGGA	TTATTTTCAT	GTAATGCTA	ATTACATTGT	CTGGAAAACA	AACCATTTTA	300
CTATTCCTAA	GGAGCAATAT	ACTATCATAA	ACAGAACAGC	ATCCACGCTC	GAG	353

(2) INFORMATION FOR SEQ ID NO:172:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 419 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:

GAATTCGGCC	AAAGAGGCCT	ACACTCGTCT	CTTTTTTTCC	CCATCTCATT	GCTCCAAGAA	60
TTTTTTTCTT	CTTACTCGCC	AAAGTCAGGG	TTCCCTCTGC	CCGTCCCGTA	TTAATATTTT	120
CACCTTTTGA	ACTACTGGCC	TTTTCTTTT	AAAGGAATTC	AAGCAGGATA	CGTTTTTCTG	180
TTGGGCATTG	ACTAGATTGT	TTGCAAAAGT	TTGCGATCAA	AAACAACAAC	AACAAAAAAC	240
CAAACTCTC	TCCTTGATCT	ATACTTTGAG	AATTGTTGAT	TTCTTTTTTT	TATTCTGACT	300
TTTAAAAACA	ACTTTTTTTT	CCACTTTTTT	AAAAAATGCA	CTACTGTGTG	CTGAGCGCTT	360
TTCTGATCCT	GCATCTGGTC	ACGGTCGCGC	TCAGCCTGTC	TACCTGCAAC	ACACTCGAG	419

(2) INFORMATION FOR SEQ ID NO:173:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 361 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:

GAATTCGGCC	AAAGAGGCCT	ACCCAGAAAC	ATCCAATTCT	CAAACTGAAG	CTCGCACTCT	60
CGCCTCCAGC	ATGAAAGTCT	CTGCCGCCCT	TCTGTGCCTG	CTGCTCATAG	CAGCCACCTT	120
CATTCCCAA	GGGCTCGCTC	AGCCAGATGC	AATCAATGCC	CCAGTCACCT	GCTGCTATAA	180
CTTCACCAAT	AGGAAGATCT	CAGTGCAGAG	GCTCGCGAGC	TATAGAAGAA	TCACCAGCAG	240
CAAGTGTC	AAAGAAGCTG	TGATCTTCAA	GACCAATTGTG	GCCAAGGAGA	TCTGTGCTGA	300
CCCCAAGCAG	AAGTGGGTTT	AGGATTCCAT	GGACCACCTG	GACAAGCAAC	CCAACTCGA	360
G						361

(2) INFORMATION FOR SEQ ID NO:174:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 368 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:

TAGGACAAA	CAAACATTT	TCCCTGGGG	TTTTTTTTT	CTTTCTTTT	TCTCCCTTT	60
ACTCTTTGGG	TGGTGTGCT	TTTCCTTCC	TTTCCCTTT	GAGATTTTT	TGTTGTGTT	120
TCCTTTTTGT	ATTTTACTGA	TATCACCAGG	ATAGTTTACT	CTCCTTCTAG	CTTTCTGCTT	180
ACCGCACT	GGATAACACA	CACATACACA	CCCACAAAA	TGCTCATGAA	CCCAATCCGG	240
AGAAGGTTCC	AGCAGGTCCC	CCACCCTCCC	CTCCTCCTCC	TACTTCTCCT	CTTGACAGCG	300
AGGACAGGAG	GGGACAAGG	GGACACCTGG	GCAGACCCGC	CGGCTCTCCC	CCCACCCAC	360
CCCGGCAC						368

(2) INFORMATION FOR SEQ ID NO:175:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 382 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

```
GAATTCGGCC AAAGAGGCCT AGACTAACCC AGAAACATCC AATTCTCAAA CTGAAGCTCG      60
CACTCTCGCC TCCAGCATGA AAGTCTCTGC CGCCCTTCTG TGCCTGCTGC TCATAGCAGC      120
CACCTTCATT CCCCAAGGGC TCGCTCAGCC AGATGCAATC AATGCCCCAG TCACCTGCTG      180
CTATAACTTC ACCAATAGGA AGATCTCAGT GCAGAGGCTC GCGAGCTATA GAAGAATCAC      240
CAGCAGCAAG TGTCCCAAAG AAGCTGTGAT CTTCAAGACC ATTGTGGCCA AGGAGATCTG      300
TGCTGACCCC AAGCAGAAGT GGGTTCAGGA TTCCATGGAC CACCTGGACA AGCAAACCCA      360
AACTCCGAAG ACTTCAACCG AG
```

(2) INFORMATION FOR SEQ ID NO:176:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 496 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

```
GAATTCGGCC AAAGAGGCCT AGTATAATAC TAAGTTGAGA TGATATCATT TACGGGGGAA      60
GGCGCTTTGT GAAGTAGGCC TTATTTCTCT TGTCTTTCTG TACAGGGAGG AATTTGAAGT      120
AGATAGAAAC CGACCTGGAT TACTCCGGTC TGAACCTAGA TCACGTAGGA CTTTAATCGT      180
TGAACAAACG AACCTTTAAT AGCGGCTGCA CCATCGGGAT GTCCTGATCC AACATCGAGG      240
TCGTAAACCC TATTGTTGAT ATGGACTCTA GAATAGGATT GCGCTGTTAT CCCTAGGGTA      300
ACTTGTTCCG TTGGTCAAGT TATTGGATCA ATTGAGTATA GTAGTTCGCT TTGACTGGTG      360
AAGTCTTAGC ATGTAAGTCT CGGAGGTTGG GTTCTGCTCC GAGGTCGCCC CAACCGAAAT      420
TTTTAATGCA GGTTTGGTAG TTTAGGACCT GTGGGTTTGT TAGGTACTGT TTGCATTAAT      480
AAATTAAAGC CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:177:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 390 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

```
TTNGGCCAAA GGGGCTTAGG ACAAACAAA ACATTTTCCT TTGGGTTTNA NTTCTNTCT      60
TTNTTCTCCC ATTTANINNT GGGGTGGTGT TGCTTTTCCT TTCCTTTTCC CTGGGAGATT      120
TTNTNGTTGT NGTTTCCTTT TTGTATTNTA NTGATATCAC CAGGATAGTT TACTCTCNTT      180
NTAGCTNTGT GCTTACCGCA CANTGGATAA CACACACATA CACACCCACA AAAATGNTCA      240
TGAACCCAAT CCGGAGAAGG TTCCAGCAGG TCCCCCAGG TCCCTCCTC CTGNTACTTTC      300
TCCTCTNGAC AGCGAGGACA GGAGGGGGAC AAGGGGACAC CTGGGCAGAC CCGCCGGCTN      360
TTCCCCCCCAC CCCACCCCGG CACCCTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:178:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

```

GAATTCGGCC AAAGAGCAAT TCTCAACTG AAGCTCGCAC TCTCGCCTCC AGCATGAAAG      60
TCTCTGCCGC CTTCTGTGC CTGCTGCTCA TAGCAGCCAC CTTATTCCC CAAGGGCTCG      120
CTCAGCCAGA TGCAATCAAT GCCCAGTCA CCTGCTGCTA TAACTTCACC AATAGGAAGA      180
TCTCAGTGCA GAGGCTCGCG AGCTATAGAA GAATCACCAG CAGCAAGTGT CCCAAAGAAG      240
CTGTGATCTT CAAGACCATT GTGGCCAAGG AGATCTGTGC TGACCCCAAG CAGAAAGTGGG      300
TTCAGGATTC CATGGACCAC CTGGACAAGC AAACCCAAAC TCCGAAGACT CTCGAG      356

```

## (2) INFORMATION FOR SEQ ID NO:179:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

```

GAATTCGGCC AAAGAGGCCT ACCGAGACTG ACACACTGAA CTCCACTTCC TCCTCTTAAA      60
TTTATTTCTA CTTAATAGCC ACTCGTCTCT TTTTTCCTCC ATCTCATTGC TCCAAGAATT      120
TTTTTCTTCT TACTCGCCAA AGTCAGGGTT CCTCTGCCC GTCCCGTATT AATATTTCCA      180
CTTTTGAAC TACTGGCCTT TTCTTTTAA AGGAATTCAA GCAGGATACG TTTTCTGTT      240
GGGCATTGAC TAGATTGTTT GCAAAAGTTT CGCATCAAAA ACAACAACAA CAAAAACCA      300
AACAACCTC CTTGATCTAT ACTTTGAGAA TTGTTGATTT CTTTTTTTA TTCTGACTTT      360
TAAAAACAAC TTTTTCCTCC ACTTTTAA AAAATGCACT ACTGTGTGCT GAGCGCTTTT      420
CTGATCCTGC ATCTGGTCAC GGTGCGCTC AGCCTGTCTA CCTGCAGCAC CACTCTCGAG      480

```

## (2) INFORMATION FOR SEQ ID NO:180:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

```

GAATTCGGCC AAAGAGCCTA ACACAGGAAA CATTACAATT GAACAATGCC TCAGCTATAC      60
ATTACATCA GATTATTGGG AGCCTATTG TTCATCATTT CTCGTGTTCA AGGACAGAAT      120
CTGGATAGTA TGCTTCATGG CACTGGGATG AAATCAGACT CCGACCAGAA AAAGTCAGAA      180
AATGGAGTAA CCTTAGCACC AGAGGATACC TTGCCTTTT TAAAGTGCTA TTGCTCAGGG      240
CACTGTCCAG ATGATGCTAT TAATAACACA TGCATACTA ATGGACATTG CTTTGCCATC      300
ATAGAAGAAG ATGACCAGGG AGAAACCACA TTAGCTTCAG GGTGTATGAA ATATGAAGGA      360
TCTGATTTTC AGTGCAAAGA TTCTCCAAA GCCAGCTAC GCCGACAAT AGAATGTTGT      420

```

CGGACCAATT TATGTAACCA GTATTTGCAA CCCACGCTCG AG

462

## (2) INFORMATION FOR SEQ ID NO:181:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

GAATTCGGCC	AAAGAGGCCT	AACACAGGAA	ACATTACAAT	TGAACAATGC	CTCAGCTATA	60
CATTTACATC	AGATTATTGG	GAGCCTATTT	GTTCATCATT	TCTCGTGTTT	AAGGACAGAA	120
TCTGGATAGT	ATGCTTCATG	GCACTGGGAT	GAAATCAGAC	TCCGACCAGA	AAAAGTCAGA	180
AAATGGAGTA	ACCTTAGCAC	CAGAGGATAC	CTTGCCTTTT	TTAAAGTGCT	ATTGCTCAGG	240
GCACTGTCCA	GATGATGCTA	TTAATAACAC	ATGCATAACT	AATGGACATT	GCTTTGCCAT	300
CATAGAAGAA	GATGACCAGG	GAGAAACCAC	ATTAGCTTCA	GGGTGTATGA	AATATGAAGG	360
ATCTGATTTT	CAGTGCAAAG	ATTCTCCAAA	AGCCCAGCTA	CGCCGGACAA	TAGAATGTTG	420
TCGGACCAAT	TTATGTAACC	AGTATTTGCA	ACCCACGCTC	GAG		463

## (2) INFORMATION FOR SEQ ID NO:182:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

TACGAGAAGT	CCTGTAAGAC	GTAAATATTT	TTAAAATTCA	CTGAATTTT	GTCTTTCTCG	60
GTACCATAGA	ACACCACAGC	CAAGAGATCT	CGATCACTGC	TTATGATCTT	ACTGATGTAC	120
ACACTTTGGA	TACACTGGAT	GCTCATGTCA	AAAGGTGTCA	ACTCATCTTC	ATCTCCATCC	180
TCTTCCTCAC	CATCACCTTC	TTCTTCCTCC	TCCTCTTCCT	CCCCACCTTC	TTCTCTTCT	240
TCGTCTACCT	CATTGTCAGC	CTCCTGCTCC	CCATTTTCTT	CATTAGCATT	CCCGTTAGCA	300
GGGGCGTCTC	TTCCATTTTC	TGCCTCTTCC	ACAACTTCTT	TCTTCTCCTT	TAAGTCCTTG	360
GTGGTGAGT						369

## (2) INFORMATION FOR SEQ ID NO:183:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

GAATTCGGCC	NAAGANGCCT	ATGATCNTCT	TCTTTGAAGA	AACATGAAGT	TACACTATGT	60
TGCTGTGCTT	ACTCTANCCA	TCCTGATGTT	CCTGACATGG	CTTCCACAAT	CACTGAGCTG	120
TNACAAAGCA	CTCTGTGCTA	NTGATGTGAG	CAATGCCTC	ATTCAGGAGC	TCTGCCNGTG	180
CCGGCCGGGA	GAAGCAATTG	CTCCTGCTGT	NAGGAGTGCA	TGCTGTGTCT	TGGGGCCCTT	240



TGGGACGANT GCTGTGACTG TGTGGTATG TGTAATCCTC GAAATTATAG TGACACACCG 300  
CACCTCNAG 309

## (2) INFORMATION FOR SEQ ID NO:184:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

GAATTCGGCC AAAGAGGCCT AATTCTGGTT TAAGATTCTA TCCATTTCTC ACTCTCAGAT 60  
CTGTTTGTTC CACCCTCTCC CCCTAAATAT TTGGATTTTA TATAGACCAG TAGGCTAAGG 120  
TAGGGAAGAC CACTGACAAG TATAAATTTA AGAGTTTACA AAACCAAGGA GGCCATCCAG 180  
CCCCTAGTTC TAAGCCATGT TCAGCACAGT GCCAACTTTG CCTTCCCTGG CTGTCCTTGC 240  
TTGCTTTCTG GTTGCTGTAA TTCTGAGGGG CAACCAGGCT TGCTGTAGAG AGGAGAGCCA 300  
GATGATGTGG AAGCCTAAGG CCACACCCCT CGAG 334

## (2) INFORMATION FOR SEQ ID NO:185:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 522 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

TAACCAGCCT TGAAAAGCCC TTCCTCTGGC TTGCTAGGAA GTCATTGGA GACCCTAACT 60  
TGGAATTTGT TGCCATGCCT GCTCTCGCCC CACCAGAAGT TGTCATGGAC CCAGCTTTGG 120  
CAGCACAGTA TGAGCACGAC TTAGAGGTTG CTCAGACAAC TGCTCTCCCG GATGAGGATG 180  
ATGACCTGTG AGAATGAAGC TGGAGCCCAG CGTCAGAAGT CTAGTTTAT AGGCAGCTGT 240  
CCTGTGATGT CAGCGGTGCA GCGTGTGTGC CACCTCATT TTATCTAGCT AAGCGGAACA 300  
TGTGCTTCAT CTGTGGGATG CTGAAGGAGA TGAGTGGGCT TCGGAGTGAA TGTGGCAGTT 360  
TAAAAAATAA CTTTATTGTT TGGACCTGCA TATTTAGCTG TTTTGGAAACG CAGTTGATTC 420  
CTTGAGTTTC ATATATAAGA CTGCTGCAGT CACATCACAA TATTCAGTGG TGAATCTTGT 480  
TTGTTACTGT CATTCCCATC CTTTTCGTT TAGAATCAGA AT 522

## (2) INFORMATION FOR SEQ ID NO:186:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

GAATTCGGCC AAAGAGGCCT AGGACAAAAC AAAACATTTT CCTTTGGGTT TTTTITTTTCT 60  
TTCTTTTTTC TCCCCTTTAC TCTTTGGGTG GTGTTGCTTT TCCTTTCCTT TTCCCTTTGA 120  
GATTTTTTTG TTGTTGTTTC CTTTTGTAT TTTACTGATA TCACCAGGAT AGTTTACTCT 180

CCTTCTAGCT	TTCTGCTTAC	CGCACACTGG	ATAACACACA	CATACACACC	CACAAAAATG	240
CTCATGAACC	CAATCCGGAG	AAGGTTCCAG	CAGGTCCCCC	ACCCTCCCCT	CCTCCTCCTA	300
CTTCTCCTCT	TGACAGCGAG	GACAGGAGGG	GGACAAGGGG	ACACCTGGGC	AGACCCGCCG	360
GCTCTCCCCC	CACCCACCC	CGGCACCTC	GAG			393

## (2) INFORMATION FOR SEQ ID NO:187:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 349 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

GAATTCGGCC	AAAGAGGCCT	ATTCTAGGAC	AAGAGCCAGG	AAGAAACCAC	CGGAAGGAAC	60
CATCTCACTG	TGTGTAAACA	TGACTTCCAA	GCTGGCCGTG	GCTCTCTTGG	CAGCCTTCCT	120
GATTTCTGCA	GCTCTGTGTG	AAGGTGCAGT	TTTGCCAAGG	AGTGCTAAAG	AACTTAGATG	180
TCAGTGCAATA	AAGACATACT	CCAAACCTTT	CCACCCCAAA	TTTATCAAAG	AACTGAGAGT	240
GATTGAGAGT	GGACCACACT	GCGCCAACAC	AGAAATTATT	GTAAAGCTTT	CTGATGGAAG	300
AGAGCTCTGT	CTGGACCCCA	AGGAAACTG	GGTGCAGAGG	GAGCTCGAG		349

## (2) INFORMATION FOR SEQ ID NO:188:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:

GAATTCGGCC	AAAGAGGCCT	ACAAGAAAGC	AAGCTCATCA	TACTGGCTAG	TGGTGGACCC	60
CAAGCTTTAG	TAAATATAAT	GAGGACCTAT	ACTTACGAAA	AACTACTGTG	GACCACAAGC	120
AGAGTGCTGA	AGGTGCTATC	TGTCTGCTCT	AGTAATAAGC	CGGCTATTGT	AGAAGCTGGT	180
GGAATGCAAG	CTTTAGGACT	TCACCTGACA	GATCCAAGTC	AACGTCTTGT	TCAGAACTGT	240
CTTTGGACTC	TCAGGAATCT	TTCAGATGCT	GCAACTAAAC	AGGAAGGGAT	GGAAGGTCTC	300
CTTGGGACTC	TTGTTAGCT	TCTGGGTTCA	GATGATATAA	ATGTGGTCAC	CTGTGCAGAT	360
CTCGAG						366

## (2) INFORMATION FOR SEQ ID NO:189:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 421 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:

TACAGCCACA	TCTGGATACA	CACACACACT	CTTACATTCA	TACCCAGAGA	CTGGTGCACA	60
GACACACACA	CATCCCCCGT	CCTGCCAATC	AGTCCCAGGA	ACACACAGGT	CTCTATCAAC	120
ACCCAGAAAT	TCTGACACCA	CAAGCACAGG	CCAACCTACA	GCTAGAGGAT	TAATGTCCAG	180

ACCCACAGGC TGGTGTGCGC ATGTCCTTCC ACGTGAATGT CACATGGGAG GACAGACTGC	240
ATGGATTTTT TTAATGACAC TATTTTATTT ATTTTTTGAG ACAGAGTCTC ACTCTGTGCG	300
CCAGGATGGA GTGCAGTGGC GTGATCTCGG CTCACTACAA CCTCCGCCTC CTGGGTTCAA	360
GCGATTCTCG TGCCTCAGCA TCCCAAGTAC CTGGGATTAC AGGCGCATGC CACCACGTCC	420
A	421

## (2) INFORMATION FOR SEQ ID NO:190:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 383 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:

GAATTCCGCC AAAGAGGCCT AGGGAGATCT GGATGGCATC TACTTCGTAT GACTATTGCA	60
GAGTGCCCAT GGAAGACGGG GATAAGCGCT GTAAGCTTCT GCTGGGGATA GGAATTCTGG	120
TGCTCCTGAT CATCGTGATT CTGGGGGTGC CCTTGATTAT CTTCAACATC AAGGCCAACA	180
GCGAGGCTG CCGGGACGGC CTTCCGGCAG TGATGGAGTG TCGCAATGTC ACCCATCTCC	240
TGCAACAAGA GCTGACCGAG GCCCAGAAGG GCTTTCAGGA TGTGGAGGCC CAGGCCGCCA	300
CCTGCAACCA CACTGTGATG GCCCTAATGG CTTCCCTGGA TGCAGAGAAG GCCCAAGGAC	360
AAAAGAAAAA GGAGGAGCTC GAG	383

## (2) INFORMATION FOR SEQ ID NO:191:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 428 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

GAATTCCGCC AAAGAGGCCT ACCCCAGTCC AGATCCAGGA CTGAGATCCC AGAACCATGA	60
ACCTGGCCAT CAGCATCGCT CTCCTGCTAA CAGTCTTGCA GGTCTCCCGA GGGCAGAAGG	120
TGACCAGCCT AACGGCCTGC CTAGTGGACC AGAGCCTTCG TCTGGACTGC CGCCATGAGA	180
ATACCAGCAG TTCACCCATC CAGTACGAGT TCAGCCTGAC CCGTGAGACA AAGAAGCAGC	240
TGCTCTTTGG CACTGTGGGG GTGCCTGAGC ACACATACCG CTCCCGAACC AACTTCACCA	300
GCAAATACAA CATGAAGGTC CTCTACTTAT CCGCCTTCAC TAGCAAGGAC GAGGGCACCT	360
ACACGTGTGC ACTCCACCAC TCTGGCCATT CCCACCCAT CTCCTCCCAG AACGTCACCA	420
GTCTCGAG	428

## (2) INFORMATION FOR SEQ ID NO:192:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 305 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

GAATTCGGCC	AAAGAGGCCT	AAAGAGCTCT	CACTTCAGTC	TTACTTACCC	CACTGCTATT	60
CCCTGTGGAG	AAAGCCGGCT	AATTGTTTTG	ATAAGGCTAT	CTGCCATTGT	AGAATACCTT	120
TCTCTAGTAG	CTGAATGACA	ATCAACTATA	CGTTCCATAC	TAAACATGCC	AGAGATAGGA	180
CTTTTAGGCC	TTGCTTTACA	AAACTGGTTT	TTAACAGCTG	ACATGAATAT	TTCCCGTTTC	240
TATTTTCTTT	TTTTTTTTTT	TTTTTTTTTT	TGAGACGGAG	TCTCGCTCTA	TCCCCCACGC	300
TCGAG						305

## (2) INFORMATION FOR SEQ ID NO:193:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 0 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

## (2) INFORMATION FOR SEQ ID NO:194:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 516 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:

GAATTCGGCC	AAAGAGGCCT	AANAGAAGAT	GCCCTGCTG	ATCACTCTAA	CCTGCTCCTC	60
TTCTGGCTCT	CAGGCTACTC	CATTGCCACT	CAAATCACCG	GTCCAACAAC	AGTGAATGGC	120
TTGGAGCGGG	GCTCCTTGAC	CGTGCACTGT	GTTTACAGAT	CAGGCTGGGA	GACCTACTTG	180
AAGTGGTGGT	GTCGAGGAGC	TATTTGGCGT	GACTGCAAGA	TCCTTGTTAA	AACCAGTGGG	240
TCAGAGCAGG	AGGTGAAGAG	GGACCGGGTG	TCCATCAAGG	ACAATCAGAA	AAACCGCAGC	300
TTCACTGTGA	CCATGGAGGA	TCTCATGAAA	ACTGATGCTG	ACACTTACTG	GTGTGGAATT	360
GAGAAAACCTG	GAAATGACCT	TGGGGTCACA	GTTCAAGTGA	CCATTGACCC	AGCACCAGTC	420
ACCCAAGAAG	AAACTAGCAG	CTCCCAACT	CTGACCGGCC	ACCACTTGGG	CAACAGGCAC	480
AAGCTCCTGA	AGCTCAGTGT	CCTCCACCC	CTCGAG			516

## (2) INFORMATION FOR SEQ ID NO:195:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195:

GAATTCGGCC	AAAGAGGCCT	AGCGCCTGA	AGACAGAATG	TTCCATATCA	GAGCTGTGAT	60
CTTGAGAGCC	CTCTCCTTGG	CTTTCTGCT	GAGTCTCCGA	GGAGCTGGGG	CCATCAAGGC	120
GGACCATGTG	TCAACTTATG	CCGCGTTTGT	ACAGACGCAT	AGACCAACAG	GGGAGTTTAT	180
GTTTGAATTT	GATGAAGATG	AGATGTTCTA	TGTGGATCTG	GACAAGAAGG	AGACCGTCTG	240
GCATCTGGAG	GAGTTTGGCC	AAGCCTTTTC	CTTTGAGGCT	CAGGGCGGGC	TGGCTAACAT	300

TGCTATATTG AACAACT TGAATACCTT GATCCAGCGT TCCAACCACA CTCAGGCCAC	360
CAACGATCCC CCTGAGGTGA CCGTGTTTCC CAAGGAGCCT GTGGAGCTGG GCCAGCCCAA	420
CACCTCATC TGCCACATTG ACAAGTTCTT CCTACCAGTG CTCGAG	466

## (2) INFORMATION FOR SEQ ID NO:196:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 191 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:196:

TAGGCAGAAT GGGACTCCAA GCCTGCCTCC TAGGGCTCTT TGCCCTCATC CTCTCTGGCA	60
AATGCAGTTA CAGCCCGGAG CCCGACCAGC GGAGGACGCT GCGCCAGGC TGGGTGTCCC	120
TGGGCCGTGC GGACCCTGAG GAAGAGCTGA GTCTCACCTT TGCCCTGAGA CAGCAGAATG	180
TGGATCGACG T	191

## (2) INFORMATION FOR SEQ ID NO:197:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 614 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

GAATTCGGCC AAAGAGGCCT AATGGATCTC ATGTGCAAGA AAATGAAGCA CTGTGGTTCT	60
TCCTCCTGCT GGTGGCGGCT CCCAGATGGG TCCTGTCCCA GCTGCAGCTG CAGGAGTCGG	120
GCCCAGGACT GGTGAAGCCT TCGGAGACCC TGTCCCTCAC CTGCACTGTC TCTGGTGGCT	180
CCATCAGCAG TAGTAGTTAC TACTGGGGCT GGATCCGCCA GCGCCAGGG AAGGGGCTGG	240
AGTGGATTGG GAGTATCTAT TATAGTGGGA GCACCTACTA CAACCCGTCC CTCAGAGTC	300
GAGTCACCAT ATCCGTAGAC ACGTCCAAGA ACCAGTTCTC CCTGAAGCTG AGCTCTGTGA	360
CCGCCGAGA CACGGCTGTG TATTACTGTG CGAGACATTC TGGGCGCAGC AGCTGGTTCA	420
CGTCCTACTG GGGCCAGGGA ACCCTGGTCA CCGTCTCCTC AGGGAGTGCA TCCGCCCCAA	480
CCCTTTTCCC CCTCGTCTCN TGTGAGAATT CCCCGTCGGA TACGAGCAGC GTGGCCGTTG	540
GCTGCCTCGC ACAGGACTTC CTTCCCGACT CCATCACTTT CTCCTGGAAA TACAAGAACA	600
ACTCTGAACG CGAG	614

## (2) INFORMATION FOR SEQ ID NO:198:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 0 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

## (2) INFORMATION FOR SEQ ID NO:199:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 427 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

```
GAATTCGGCC AAAGAGGCCT ANACTGCAGC TCTTTTCATT TTGCCATCCT TTTCCAGCTC    60
CATGATGGTT CTGCAGGTTT CTGCGGCCCC CCGGACAGTG GCTCTGACGG CGTTACTGAT    120
GGTGCTGCTC ACATCTGTGG TCCAGGGCAG GGCCACTCCA GAGAATTACC TTTTCCAGGG    180
ACGGCAGGAA TGCTACGCGT TTAATGGGAC ACAGCGCTTC CTGGAGAGAT ACATCTACAA    240
CCGGGAGGAG TTCGCGCGCT TCGACAGCGA CGTGGGGGAG TTCCGGGGCGG TGACGGAGCT    300
GGGGCGGCCT GCTGCGGAGT ACTGGAACAG CCAGAAGGAC ATCCTGGAGG AGAAGCGGGC    360
AGTGCCGGAC AGGATGAGCA GACACAATA CGAGCTGGGC GGGCCCATGA CCCTCACAGA    420
ACTCGAG                                         427
```

(2) INFORMATION FOR SEQ ID NO:200:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 322 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:

```
TAGGGATGTC AACATGATCT TTTTCATATAT GCTGGCTATA GAAATTGGTC TCGGTGAAGT    60
AATGGTCTGT CTGTCAAGCA TGACATCCTT GCCTGTGTTA AGTTTGTGTT GCTCTTCTGG    120
GATGTTGATC GTGACGTCTT GTCGGGGATT GAGAAGCTTC TGTTGCTCTT CTGGGATGTC    180
ATTTCATGATC TCTTCATATA TGCTGGCTAT AGAAATTGGG CTCGTGAAG AAATAGTGTG    240
TCCCCAACCT TGGTACAGNC CCCCTGGGA GGGTACCTTT GAAGAACCAG AAGTTAGANC    300
TTGTGAAGAA GAAGAAAGTA GG                                         322
```

(2) INFORMATION FOR SEQ ID NO:201:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

```
GAATTCGGCC AAAGAGGCCT ATGGAGTGTG AGAACAGCAA AAAATAATAA TTCAACCACT    60
TGTTATTAT GAACATCATT TTCATATTTT TAAAAATATG CTATATCATG GAATTCATG    120
TAAAACCTCA AGAGATGCCA TCCTTGGAGA GGGCTGCACC AGCCTGTGCC CCAAGTTACC    180
CAGGATCACC CCCTACTTCT CCTGACGGCC CCCCAGAGAA GGCCTGCATT CTGGGCGACG    240
TGGCCTTCAG GGGCTCAACC CTTGGCCTCG AG                                         272
```

(2) INFORMATION FOR SEQ ID NO:202:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 401 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

```
GAATTCGGCC AAAGAGGCCT AGCCAATTTG GTTTTCTAAG TATTTTCACG CCTTCTCCTC      60
GTGTCCGGCT CACTGCTCTG ATTCAGGCCC TTGTCAATTC TCATCTTTGC CATTTTAGTA      120
GTTTTTGGAT TGGGCTCCCG GCTGCTAATT TTGTCCCCTT TTCCACTATC TTCCACATTG      180
TCACCGCAGT CATGTTTCTA AGGCAGAATC TCACTGTGCC CCACATCGTG TTGCTGGGCC      240
CTTGCAATGCC GTACCCTGGC CTTTGTGAAA TGCCTTCAT CTGTGCTCTT CCCTCCACCT      300
GGAATGTCGG TCTCTCTTTT TCTGCCAACC CACNCGACCC CTCCCTCCTN CAAGCCCGTG      360
AGTGTCCCN CCCTCCATGT CCTGTGGTGA CAGAGCTCGA G                                401
```

(2) INFORMATION FOR SEQ ID NO:203:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 395 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

```
GAATTCGGCC AAAGAGGCCT ACGATATTTG CTGCGACCCG CAGGCGCTAT CCGCTGCCGG      60
GTTCTGGGCG GCCCTTTCAG TTCTGCTTGC TGTCCGCACC GNTGCCGTTAC CCGGAACCGC      120
CGGGCCGAAC AGCATGACGT CCGCTTTGGA GAACTACATC AACCGAACTG TTGCCGTTAT      180
TACATCAGAT GGGAGAATGA TTGTGGGAAC ACTGAAAGGT TTTGACCAGA CCATTAAATTT      240
GATTTTGGAT GAAAGCCATG AACGAGTATT CAGCTCTTCA CAGGGGGTAG AACAGTGGT      300
ACTAGGATTA TACATTGTAA GAGGTGACAA CGTTGCAGTC ATTGGAGAAA TCGATGAAGA      360
AACAGATTCT GCGCTTGATT AGGGGAACAC TCGAG                                395
```

(2) INFORMATION FOR SEQ ID NO:204:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 395 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

```
GAATTCGGCC ANAGAGGCCT AAGAGCCAGT AAAAAAATTG TTAGAAAGCA GATACCATCA      60
AATTGGTTCT GGGAAAGTGT AAATCAAAGT TGCACAACCC AAAGAGGTAT ATAGGCAGCA      120
ACAGCAACAA CAAAAAGGTG GAAGAGGTGC TGCAGCTGGT GGACGAGGTG GTACGAGGGG      180
TCGTGGCCGA GGTGAGGCC AAAACTGGAA CCAAGGATTT AATAACTATT ATGATCAAGG      240
ATATGGAAAT TACAATAGTG CCTATGGTGG TGATCAAAC TATAGTGGCT ATGGCGGATA      300
TGATTATACT GGGTATAACT ATGGGAAC TAAGATATGA CAGGGATATG CAGACTACAG      360
TGGCCAACAG AGCACTTATG GCAAGGCATC TCGAG                                395
```

(2) INFORMATION FOR SEQ ID NO:205:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 560 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

GAATTCGGCC	AAAGAGGCCT	AGTTTGGTCG	TTCGTTGGGC	GGTGCTGGTT	TTTCGCTCGT	60
CGACTGCGGC	TCTTCCTCGG	GCAGCGGAAG	CGGCGCGGCG	GTCGGAGAAG	TGGCCTAAAA	120
CTTCGGCGTT	GGGTGAAAGA	AAATGGCCCG	AACCAAGCAG	ACTGCTCGTA	AGTCCACCGG	180
TGGGAAAGCC	CCCCGCCAAA	CAGTTGNCCA	CGGAAANCCG	CCAGGAAAAG	CGCTCCNTCT	240
ACCGGCGGGG	TGAAGAAGCC	TCATCGCTAC	AGGCCCGGGA	CCGTGGCGCT	TCGAGAGATT	300
CGTCGTTATC	AGAAGTCGAC	CGAGCTGCTC	ATCCGGAAGC	TGCCCTTCCA	GAGGTTGGTG	360
AGGGAGATCG	CGCAGGATT	CAAAACCGAC	CTGAGGTTTC	AGAGCGCAGC	CATCGGTGCG	420
CTGCAGGAGG	CTAGCGAAGC	GTACCTGGTG	GGTCTGTTTC	AAGATACCAA	CCTGTGTGCC	480
ATCCACGCTA	AGAGAGTCAC	CATCATGCCC	AAAGACATCC	AGTTGGCTCG	CCGATACGG	540
GGAGAGAGAG	CTTTCTCGAG					560

(2) INFORMATION FOR SEQ ID NO:206:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 411 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:

GAATTCGGCC	AAAGAGGCCT	ACTAGTTTAC	TTTATCCCAT	CCATTTATAT	ATACATATAT	60
ATACACATAT	ATGTGTGTTG	TTTTTGTTTT	GTTTTGTTTT	GTTTTTTTGA	GATGGAGTCT	120
CGCTCTGTCTG	CCCAGGCTGG	AGTGCACTGG	TGTGATCTTG	GCTCACTGCA	ACCTCTGCCT	180
CCTGGGTTC	AGCAATTCTC	CTGCCTCAGC	TTCCCCGAGT	AGCTGGGACT	ACAGGTGTGC	240
GCCACCACGC	CCGGCAAATT	TTTTTTTTTT	TTTTTTTTTT	TTGATATTTT	TAGCAGAGAT	300
GAGGTTTCCC	CACGTGGGCC	AGGCTGGTCT	CGAACTCTTG	ACCTCAGGTT	ATCTGCCTGC	360
CTTGGCCTCC	CAAAGTGTTG	GGATTACAGG	CGTGAGCCAC	CGAACCTCGA	G	411

(2) INFORMATION FOR SEQ ID NO:207:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 0 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:

(2) INFORMATION FOR SEQ ID NO:208:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 411 base pairs  
 (B) TYPE: nucleic acid



(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:

GAATTCGGCC	AAAGAGGCCT	ACGTGGTGCG	CGAGAGCGTA	TCCCCAACTG	GGAATTCCGA	60
GGCAACTTGA	ACTCAGAACA	CTACAGCGGA	GACGCCACCC	GGTGCTTGAG	GCGGGACCGA	120
GGCGCACAGA	GACCGAGGCG	CATAGAGACC	GAGGCACAGC	CCAGCTGGGG	CTAGGCCCGG	180
TGGGAAAGGA	GAGCGTCGTT	AATTTATTTC	TTATTGCTCC	TAATTAATAT	TTATATGTAT	240
TTATGTACGT	CCTCCTAGGT	GATGGAGATG	TGTACGTAAT	ATTTATTTTA	ACTTATGCAA	300
GGGTGTGAGA	TGTTCCCNCT	GCTGTAAATG	CAGGTCTCTT	GGTATTTATT	GAGCTTTGTG	360
GGACTGGTGG	AAGCAGGACA	CCTGGAAGTG	CGCCAAAGTA	GGCGACTCGA	G	411

(2) INFORMATION FOR SEQ ID NO:209:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 152 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:

GAATGCTGAT	TGACCAGCTA	AAAATCAAAT	TACAAGATAG	CCAAAATAAC	TTACAGATTA	60
ATGTATCTGA	ACTTCAGACA	TTGCACTCTG	AACATGNTAC	ACTGCTAGAA	AGGCACAACA	120
AGATGCTGCA	GGAAACTGTG	TCTCAGCTCG	AG			152

(2) INFORMATION FOR SEQ ID NO:210:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 355 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:

GAATTCGGCC	AAAGAGGCCT	ACACNTCTGC	ACCTCAACCA	CAGACTACAC	TTGCTGAACT	60
GGCTCCTGGG	GCCATGAGGC	TGTCAGTGCC	ACTGCTGCTG	CTGCTGCTGG	GAGCCTGGGC	120
CATCCCAGGG	GGCCTCGGGG	ACAGGGCGCC	ACTCACAGCC	ACAGCCCCAC	AACTGGATGA	180
TGAGGAGATG	TACTCAGCCC	ACATGCCCCG	TCACCTGCGC	TGTGATGCCT	GCAGAGCTGT	240
GGCTTACCAG	GTGAGTCCTT	CACCACTGTC	ACCCTGCCCT	GCTCACACCC	CTTCTCAAGC	300
CAGACCCCTC	CACCCACCTC	ACATTCCACC	ACCGGCCTTT	GATCCCCGCC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:211:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 403 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

GAATTCGGCC	AAAGAGGCCT	AATTATAAGC	ACTCAATAAT	ACATTATCAA	CTATTATTAC	60
TCAATTAAAA	CTGGTTAACT	TTAATTGAAT	TTGAACTGCC	ACCTAGAATA	GACAAGAAAA	120
TGAAACACAA	TTCTGTATGG	ATGTCAGAAA	CATGAAATAT	AAAATGTAAT	AAATAAAAAAT	180
ATTAAAAACC	CCTTAGCAAA	TGTTAAGGAG	CGTGTCAAAT	GATTCCTGTG	TTGAACCTTA	240
AGCATTTAGG	TGGCTGGAGC	CTTGAAAGTT	ACCATCCCCC	AATTTTCTGC	TGTGTCACTA	300
GGTTTTTTTC	TATTGAGCAA	TTCTTTCAGG	TCGCCTCCAC	TCTGCTCTGC	CTAAAGGACA	360
ACTTCATATA	GTGCATTCGT	GTCTTAGACT	CCACGATCTC	GAG		403

## (2) INFORMATION FOR SEQ ID NO:212:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:

GAATTCGGCC	AAAGAGGCCT	AAGCGCTAAG	CCTGGAGTGT	GGGCACTGCA	GTTTCAGAGG	60
CACCGATTAT	GAGAATGTGC	AGCTCCACAT	GGGCTCCATT	CATCCTGAGT	TCTGTGATGA	120
TATGGATGCC	GGGGGCCTGG	GCAAGCTCAT	CTTTTACCAG	AAGAGTGCAA	AGCTCTTCCA	180
TTGCCATAAG	TGCTTCTTCA	CCAGCAAGCT	GTACGCCAAT	GTGTACTATC	ACATCACGGC	240
CAGACACGCA	GCCTCGGACA	AGTGGAGTGA	GCAGCCGAAA	GAGCAGCCGA	GCAAAGACAC	300
CCGTCGAG						308

## (2) INFORMATION FOR SEQ ID NO:213:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:

GAATTCGGCC	AAAGAGGCCT	ACTGTGGTAA	TTCTAGAGCT	AATACATGCC	GACGGGCGCT	60
GACCCCTTC	GCGGGGGGGA	TGCGTGCAAT	TATCAGATCA	AAACCAACCC	GGTCAGCCCC	120
TCTCCGGCCC	CGGCCGGGGG	GCGGGCGCCG	GCGGCTTTGG	TGACTCTAGA	TAACCTCGGG	180
CCGATCGCAC	GCCCCCGTGG	GCGGCGACGA	CCCATTGAA	CGTCTGCCCT	ATCAACTTTC	240
GATGGTAGTC	GCCGTGCCTA	CCATGGTGAC	CACGGGTGAC	GGGGAATCAG	GGTTTCGATTC	300
CGGAGAGGGA	GCCTGAGAAA	CGGTTACCAC	ATCCAAGGAA	GGCAGCAGGC	GCGCACCTCG	360
AG						362

## (2) INFORMATION FOR SEQ ID NO:214:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 445 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:

GAATTCGGCC	AAAGAGGCCT	ATTCTTTTTT	AAACTAATCA	CCATATTGTA	AATTCAGGG	60
TTTTTTTTTT	GGTTTAAGCT	GACTCTTNGC	TCTAATTTTG	GAAAAAAGA	AATGTGAAGG	120
GTCAACTCCA	ACGTATGTGG	TTATCTGTGA	AAGTTGCACA	GCGTGGCTTT	TCCTAAACTG	180
GTGTTTTTCC	CCCGCATTGG	GTGGATTTTT	TATTATTATT	CAAAAACATA	ACTGAGTTTT	240
TTAAAAGAGG	AGAAAATTTA	TATCTGGGTT	AAGTGTATT	CATATATATG	GGTACTTTGT	300
AATATCTAAA	AACTTAGAAA	CGGAAATGGA	ATCCTGCTCA	CAAAATCACT	TTAAGATCTT	360
TTCGAAGCTG	TTAATTTTTC	CTAGTGTGTG	GGACACTGCA	GACTTGTCCTA	GTGCTCCAC	420
GGCCTGTACG	GACACGACTC	TCGAG				445

## (2) INFORMATION FOR SEQ ID NO:215:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

GAATTCGGCC	AAAGAGGCCT	ACTTCACTCT	CTCATTCTTA	GCTTGAATTT	GGAAATGACT	60
TTTGATGACC	TAAAGATCCA	GACTGTGAAG	GACCAGCCTG	ATGAGAAGTC	AAATGGAAAA	120
AAAGCTAAAG	GTCTTCAGTT	TCTTTACTCT	CCATGGTGGT	GCCTGGCTGC	TGCGACTCTA	180
GGGGTCCTTT	GCCTGGGATT	AGTAGTGACC	ATTATGGTGC	TGGGCATGCA	ATTATCCAG	240
GTGTCGTACC	TCCTAACACA	AGAGCAAGCA	AACCTAACTC	ACCAGAAAAA	GAAACTGGAG	300
GGACAGATCT	CAGCCCGGCA	ACAAGCAGNA	GAAGCTGTTT	TCGAG		345

## (2) INFORMATION FOR SEQ ID NO:216:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 511 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

GAATTCGGCC	AAAGAGGCCT	ACTGGGGAGT	CTGCTATATT	GTTGTTAAGG	TCTCTTTGTT	60
AGTGGTGGTA	GAAATTGGAG	TATTCCTCT	CATTTGTGGT	TGGTGGCTGG	ATATCTGTTT	120
CTTGGAATG	TTTGATGCTA	CTCTGAAAGA	TCGAGAACTG	AGCTTTCAGT	CGGCTCCAGG	180
TACTACCATG	TTTCTGCATT	GGCTAGTGGG	AATGGTATAT	GTCTTCTACT	TTGCCTCCTT	240
CATTCTATTA	CTGAGAGAGG	TACTTCGACC	TGGTGTCTCTG	TGGTTTCTAA	GGAATTTGAA	300
TGATCCAGAT	TTCAATCCAG	TACAGGAAAT	GATCCATTG	CCAATATATA	GGCATCTCCG	360
AAGATTTATT	TTGTCAGTGA	TTGTCTTTGG	CTCCATTGTC	CTCCTGATGC	TTTGGCTTCC	420
TATACGTATA	ATTAAGAGTG	TGCTGCCTAA	TTTCTTCCA	TACAATGTCA	TGCTCTACAG	480
TGATGCTCCA	GTGAGTGAAC	TGTCCCTCGA	G			511

## (2) INFORMATION FOR SEQ ID NO:217:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

GAATTCGGCC AAAGAGGCCT AGTTTATACC CACAGAATTT TTTCATAAAA TTAACCAAAC	60
CCTTTTCACT TTGCTTAAGA CTTCAAGTTT GTCCCATAC TCTTTAAGGT TAAGACCATC	120
TATAAAATCC TCTGAAGTGG ACAAATAC ATTCTCTTA NCAAAATCCA TATTCCTATG	180
CCTTCTTATA ATCTTTTACC AAAACACCT TCCCTATACA CCTTGTACGT AAAACTGTTT	240
CTCCAGTGGT CTCAACTACA TATTATACTG TTAACCTTA CTCCTTTAG CATAGCTAGT	300
AGGCATGGCT CTCCATATGT TCCAGGCAT CTCGAG	336

(2) INFORMATION FOR SEQ ID NO:218:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 167 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

GAATTCGGCC AAAGAGGCCT AGTGGGTAGA TACAGACCCT AACTTTGAGC TCTAAGATGA	60
AATTGTTTA TAAATCCCTA GTTCCATTG AGTTTTTCA ATATTATCA AACACCTACT	120
GTGCCAGGCA TTGTTTAGGC ACAGGGGATA CAGCAGAAAA ACTCGAG	167

(2) INFORMATION FOR SEQ ID NO:219:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 377 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

GAATTCGGCC AAAGAGGCCT ACACACGCCT TTGGCACAAT GAAGTGGGTA ACCTTTATTT	60
CCCTTCTTTT TCTCTTTAGC TCGGCTTATT CCAGGGGTGT GTTTCGTCGA GATGCACACA	120
AGAGTGAGGT TGCTCATCGG TTAAAGATT TGGGAGAAGA AAATTTCAAA GCCTTGGTGT	180
TGATTGCCTT TGCTCAGTAT CTTCAGCAGT GTCCATTTGA AGATCATGTA AAATTAGTGA	240
ATGAAGTAAC TGAATTTGCA AAAACATGTG TTGCTGATGA GTCAGCTGAA AATTGTGACA	300
AATCACTTCA TACCCTTTT GGAGACAAAT TATGCACAGT TGCAACTCTT CGTGAAACCT	360
ATGGTGAAAC CCTCGAG	377

(2) INFORMATION FOR SEQ ID NO:220:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 310 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:

CTTGGGGGTG	GGTTCNNNT	ANNAAAAATT	ANAGNCCTTG	GGGGTTGGGG	GGCNGAGAAG	60
GAANANAGAA	CCCCNGGNAA	AATTTGAAAA	CNGGGTNATT	TATCCNGTNT	TTTNAANGAG	120
AATCCCANNC	CCGGAAAAAA	AAAAAAAANG	AGGAANANAN	AGATTGTAAG	TTAAAACAAA	180
AATCTATCTG	TATAAGTCTT	TACTTGTACA	AGTCTGTACA	AGTCAGTNAG	GTTTGGTCTC	240
TGCAGAGCCA	GAAGGTCAGA	GAAGGTGATT	TAATTGTAGG	CNTCTTGGT	AGGCCTCTTT	300
GGCCGAATTC						310

## (2) INFORMATION FOR SEQ ID NO:221:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:

GAATTCGCCC	AAGAGGCCTA	AAGAGGCCTA	GAAGCCAAAA	AACTTTTCCC	GAAAGGAGTC	60
TTCACCAAG	AGCTCCCATC	TGGCAAGAAA	TACCTCCGCT	ACACACCCCA	GCCTTAAGTC	120
TCTTGGAGAA	GCTGGTGCTG	TGAGCCAGAG	GATGTCAGCT	GCCAATTGTG	TTTTCCTGCA	180
GCAATTCAT	AAACACATCC	TGGTGTATC	ACAGCCAAGG	TTTTTAGGTT	GCTATACCAA	240
TGGCTTATTA	AATGAAAATG	GCACTAAAAG	TTTCTTGAGA	TTCTTTATAC	TCTCTGCCTT	300
CAGCAATCTC	GAG					313

## (2) INFORMATION FOR SEQ ID NO:222:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

GAATTCGGCC	AAAGAGGCCT	AGGAACCACT	GGCTTGGTGG	ATTTTGCTAG	ATTTTCTGA	60
TTTTTAAACT	CCTGAAAAAT	ATCCAGATA	ACTGTCATGG	AGCTGGTAAC	TATCTTCCTG	120
CTGGTGACCA	TCAGCCTTTG	TAGTTACTCT	GCTACTGCCT	TCCTCATCAA	CAAAGTGCCC	180
CTTCCTGTTG	ACAAGTTGGC	ACCTTTACCT	CTGGACAACA	TTCTTCCCTT	TATGGATCCA	240
TTAAAGCTTC	TTCTGAAAAC	TCTGGGCATT	TNTGTTGGGC	ACCTTGTGGA	GGGGCTAAGG	300
AAGTGTGTAA	ATGAGCTGGG	ACCAGAGGCT	TCTGAAGCTG	TGGAGCAACC	GCTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:223:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 208 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:

GAATTCGGCC	AAAGAGGCCT	ATTAAATGTG	TCATTGGAAG	CCATCCCTTT	TTTTACATTT	60
CATACAACAG	AAACCAGAAA	AGCAATACTG	TTTCCATTTT	AAGGATATGA	TTAATATTAT	120

TAATATAATA ATGATGATGA TGATGATGAA AACTAAGGAT TTTTCAAGAG ATCTTTCTTT 180  
 CCAAACATT TCTGGACAGT ACCTCGAG 208

## (2) INFORMATION FOR SEQ ID NO:224:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 348 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:

TNAACCAAT AGTTTTTTAA AAGACAAGCT TGGGTGGGTG CANGNTGGGG ACAGTGCTGG 60  
 TCTTTCACNG CAGCCCAGGC ACCCNTTGAG AGTCCCAGNG NGNGTNATGC CCCGAGCCAG 120  
 TNAAGATGAA GGGAGAGCGG GTGCGGGGGC CATCNTCGGN GTCCCAGCCC GGCCCATGGG 180  
 ANTGAGTNGC GGCCTCTGCT TGTCGACNTG GGNGCTGGCT GTCCNATTTT ACTACTATTG 240  
 ACCCTGAAGG CCATCGAGGA GGGCAGCATG GAGGAGATCG AAGAGGAGGT CCGGCAGAAG 300  
 AAATCATCAC GGAAGCGCAA GCGAGACTAG GCNTCTNTGG CCGAATTC 348

## (2) INFORMATION FOR SEQ ID NO:225:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 483 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:

GAATTCGGCC AAAGAGGCCT ACTTTCTCTG CAGATCATGG GGCCCTTGAT TGTGCTTGTG 60  
 GGATTGTGTT TCTTCGTGGT TGCCCATGTT AAGAAGAGAA ACACGCTGAA TGCTGGCCAG 120  
 GATGCCTCTG AGAGAGAAGA GGGACAGATC CAGATTATGG AGCCTGTCCA GGTCACTGTA 180  
 GGTGACTCGG TAATAATATT TCCACCCCTT CCACCACCTT ACTTTCCTGA ATCTTCAGCT 240  
 TCTGCGGTCTG CTGAGAGTCC TGGAACATAAC AGTCTGCTTC CGAATGAAAA CCCCCTTCA 300  
 TATTACAGTA TTTTCAACTA TGGCAGGACC CCAACTTCAG AGGGTGCAGC CTCTGAAAGA 360  
 GATTGTGAAT CTATATATAC CATTCTGTTG ACGAATTCAT CTCTGAGGC CTCACACACT 420  
 CCACATCTTC CATCTGAATT GCCTCCTAGA TATGAAGAAA AAGAAAATGC TGCAGCACTC 480  
 GAG 483

## (2) INFORMATION FOR SEQ ID NO:226:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 500 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:226:

GAATTCGGCC AAAGAGGCCT ACGATTACAA TCATGATTTC CAGAATGGAG AAGATGACGA 60  
 TGATGATGAA GATATTGATT ATGTTTGCTC TTGGAATGAA CTACTGGTCT TGCTCAGGTT 120  
 TCCCAGTGTA CGACTACGAT CCATCTCCTT TAAGGGATGC CCTCAGTGCC TCTGTGTTAA 180

AAGTGAATTC	CCAGTCACTG	AGTCCGTATC	TGTTTCGGGC	ATTCAGAAGC	TCATTAAAAA	240
GAGTTGAGGT	CCTAGATGAG	AACAACCTTG	TCATGAATTT	AGAGTTCAGC	ATCCGGGAGA	300
CAACATGCAG	GAAGGATTCT	GGAGAAGATC	CCGCTACATG	TGCCTTCCAG	AGGGACTACT	360
ATGTGTCCAC	AGCTGTTTGC	AGAAGCACCG	TGAAGGTATC	TGCCCAGCAG	GTGCAGGGCG	420
TGCATGCTCG	CTGCAGCTGG	TCCTCTCCA	CGTCTGAGTC	TTACAGCAGC	GAAGAGATGA	480
TTTTTGGGGA	CACTCTCGAG					500

## (2) INFORMATION FOR SEQ ID NO:227:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 497 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:

GAATTCGGCC	AAAGAGGCCT	AGGAGAAAGA	AGATATTGAC	ACCATCTACG	GGCACCATGG	60
AAGTCTTCA	AGTGACCATT	CTTTTCTTC	TGCCAGTAT	TTGCAGCATT	AACAGCACAG	120
GTGTTT TAGA	GGCAGCTAAT	AATTCACCTG	TTGTTACTAC	AACAAAACCA	TCTATAACAA	180
CACCAAAACAC	AGAATCATTA	CAGAAAAATG	TTGTCACACC	AACCAACTGGA	ACAACCTCCTA	240
AAGGAACAAT	CACCAATGAA	TTACTTAAAA	TGTCTCTGAT	GTCAACAGCT	ACTTTTTTTAA	300
CAAGTAAAGA	TGAAGGATTG	AAAGCCACAA	CCACTGATGT	CAGGAAGAAT	GACTCCATCA	360
TTTCAAACGT	AACAGTAACA	AGTGTTACAC	TTCCAAATGC	TGTTTCAACA	TTACAAAGTT	420
CCAAACCCAA	GACTGAAACT	CAGAGTTCAA	TTAAACAAC	AGAAATACCA	GGTAGTGTTT	480
TACAACCAGA	NCTCGAG					497

## (2) INFORMATION FOR SEQ ID NO:228:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 154 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:

GAATTCGGCC	AAAGAGGCCT	ACTTTTTTAA	TATAAATTTT	GTTGATATGG	AATTAGGTAA	60
GTTTAAAGTGT	CTATGTGCAT	ATGTTTTTTA	TATAAGTTTT	TTCTATTGAG	TTTCACNGAT	120
CCAACTGGCA	GTGGGTAAAT	ATGGCGAGCT	CGAG			154

## (2) INFORMATION FOR SEQ ID NO:229:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 387 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:

GAATTCGGCC	AAAGAGGCCT	AGGAATGGTT	TINATTGGT	CCTTATTTTT	AACCTGCCCC	60
TGAGACTTAT	ATGCTTGTTT	ATACCATGTA	CGTAGTGTGT	GATTGTATGT	GTTTGTATTT	120

GTCCACATGT	CCCAAAACAT	GGGCTGTTAC	TCCCTTTTCT	ATCTTGGTTT	CCTTATTCCC	180
ACCCCTTCTCT	TTCCACCCAG	GTATCTGGAC	AGGAAGACTT	CTACCATCAG	CTTTACCAGA	240
GGAAGCTGCA	GGCCCCACTG	TGGCCCAGCT	CCCTGGGCAT	CACTGATTGC	TATCAGTATG	300
TCACCTCCTG	TCACCCCAAG	AGATCAGAGA	GACGCAAGTA	TGGCCGAGAC	TTCTGTCTAC	360
GTTTCCGCTT	CTGCAGCATC	GCTCGAG				387

## (2) INFORMATION FOR SEQ ID NO:230:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:

GAATTCGGCC	AAAGAGGCCT	ACCTTCATTT	GTTAGATTAT	ATCAGTACCC	CAACTTTGCT	60
GGACCTCATG	CAGCTTTAGC	TAATAAAAGT	TTCTTTAAGG	CAGATAAAGT	TACAATGCTG	120
TGGAATAAAA	AAGGTATGTT	AAGTATATTT	TATCCCTCCC	TTTGTTTATC	AGTTGTTAAT	180
TTAGGCTATA	TTCTATGTG	TATAACAGAA	GAATCAATGC	CCATTGTGT	TTTAAATCTA	240
ATTAAAGTTT	TTACTGTTAT	AGCTACTGCT	GTGTTGGTAA	TAGCTAGCAC	AGATGTTGAC	300
AAGACAGGAG	CTTCCTACTA	TGGAGAACGA	CTCGAG			336

## (2) INFORMATION FOR SEQ ID NO:231:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 479 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:

GAATTCGGCC	AAAGAGGCCT	AGGGACATTG	GTTGAATTGG	CATGACTAGA	ATAGTTGGGA	60
ATGTTTGGGA	ATGGGGAGAG	ATTGCTAATG	GGATGTCTGC	CAGGGGCAAT	ACTGAAATCT	120
GCTGGTTGGT	AAAGGTAGTG	CCTGAGCCCA	GTGCTAACCA	TAGTAGTTGG	AAAATTGTGT	180
ACGTTGGCTG	TGGAATCCTT	ATGCGAATAT	TTGTCCAATC	CATCTAAATT	TCTCTCTGCA	240
GCATTTTTAA	AAAGACATAT	AGCTGAAATT	TTGTCAGTCC	TAAAAATATT	TTGTATTTCT	300
CTGCCCAGAT	TTGCATTTGG	GTAGATCGTG	CTGTAGAAGA	TATATCTTGC	TTTAAGATAG	360
CTGCCACTGA	TTAGTTTATT	TTAGTCTATT	TTAATCAACT	TATTGCCTTG	TAATCTTTCC	420
TTTTTCATTC	TCTAAATTTC	TGAAATTCTA	TCTTTCATGT	TCCCCAGGAA	ACACTCGAG	479

## (2) INFORMATION FOR SEQ ID NO:232:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:

GAATTCGGCC	TTCATGGCCT	ACATGATGTC	AACAACCGTG	GCTCACAAGA	TGAAAGAGCA	60
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CATTCTTTT	TTTGAAGATA	TGTGTAAAGG	CATTAAAGCT	GGTGACACCT	GTGAGAAGCT	120
GGTGGGATAT	TCTNCCGTGT	ATAGAGTCTG	TTTTGGAATG	GCTTGTTTCT	TCTTTATCTT	180
CTGTCTACTG	ACCTTGAAAA	TCAACAACAG	CAAAAGTTGT	AGAGCTCATA	TTCACAATGG	240
CTTTTGTTT	CTTTAACTT	CTGCTGTTGG	GGGCCATGTG	CTCAGGAGCT	TTCTTCATTC	300
CAGATCAGGA	CACCTTTCTG	AACGCCGGGC	AGCTCGAG			338

## (2) INFORMATION FOR SEQ ID NO:233:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 363 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:

GAATTCGGCT	TCATGGCCTA	CCCCGAACCA	CTCAGGGTCC	TGTGGACAGC	TCACCTAGTG	60
GCAATGGCTC	CAGGCTCCCG	GACGTCCCTG	CTCCTGGCTT	TTGCCCTGCT	CTGCCTGCCC	120
TGGCTTCAAG	AGGCTGGTGC	CGTCCAAACC	GTTCCGTTAT	CCAGGCTTTT	TGACCACGCT	180
ATGCTCCAAG	CCCATCGCGC	GCACCAGCTG	GCCATTGACA	CCTACCAGGA	GTTTGAAGAA	240
ACCTATATCC	CAAAGGACCA	GAAGTATTCA	TTCTTGCAATG	ACTCCAGAGC	CTCCTTCTGC	300
TTCTCAGACT	CTATTCCGAC	ACCCTCCAAC	ATGGAGGAAA	CGCAACAGAA	ATCCAATCTC	360
GAG						363

## (2) INFORMATION FOR SEQ ID NO:234:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 374 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:234:

GAATTCGACC	TTCATGACCT	AGCGTAAGAG	GAGAGAGACA	CATTGACGAG	CCAAAGGACT	60
CGGTGGAAAG	AGCAGAACAC	CATAGACAAT	ATGTCGCTCT	TGGGACCCAA	GGTGCTGCTG	120
TTTCTTGCTG	AATTCATCAT	CACCTCTGAC	TGGATACCCC	TGGGGGTCAA	TAGTCAATCG	180
AGGAGACGAT	GTGACTCAAG	CGACTCCAGA	AACATTGACA	GAAGATCCTA	ATCTGGTGAA	240
TGATCCCGCT	ACAGATGAAA	CAGTTTGGC	TGTTTGGCT	GATATTGCAC	CTTCCACAGA	300
TGACTTGGAG	TGCTGGGATG	AGAAATTAC	CTGCAGCAAG	GCTCTACTCT	GTGCATCGGC	360
CGGTAAACT	CGAG					374

## (2) INFORMATION FOR SEQ ID NO:235:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 330 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:235:

GAATTCGGCC	TTCTGGCCTA	GGGTGGGATA	AGTGATTNGT	ATTTGTTING	GTTTAAAAAC	60
------------	------------	------------	------------	------------	------------	----

ATACTTTGAT AGAAATTAGT CCCTTCTTT TCCTTCTCTT CTACAATGTC AATTGCCCAT	120
TTCATTTGTG TGTTCCTAAC ATTTTCTTTT GTTAAGAAAT GTTGGGGCTA TAATTTTTT	180
GAAATCACTG AAGGAGGGG AAAAATAATT TTAACAACCT GTGTTGAAAC CTTCCATAGC	240
TTAATTGACT GGAATAATCC TGCCATCATT AATAAGATGT ACAAGGTGTA CCTTGGAGAT	300
ATACCACTGA AGACAANAGA GGAGCTCGAG	330

## (2) INFORMATION FOR SEQ ID NO:236:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 107 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:236:

TTACACCCTG GAAACCAAGC ATAAGCACAC TNTTAGCAGA TGACTTAGAA ATTAAGTTGT	60
TTGAATCNAG TGAACACACT GAAGACTCCA ACAACCCACA ACTCGAG	107

## (2) INFORMATION FOR SEQ ID NO:237:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 338 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:237:

GAATTCGGCC TTCATGGCCT ACCCGTCGTT AGTGAAGGGG AAATGGGTTG TATCCTAAGG	60
GATTGGGAAA TGGGAAGTGA ATTTCAAGGAG ATTGTGGAGT ACAAGGTATG TGTTTACGTT	120
AGGTGATGAG CAGTGTCAAG ATAGTGAAGT GTGGACAGTG TCAAATGCTT TTCTGTAGGC	180
AAGATGAAGT TAGCATCATC TTATCACTTT TGACATGCTT TTGTGGTTTA TTTTGTTTTG	240
TATTCGTTT TTAGTAGAAA TGAAAGGCTT TGCCAAAGCC TCTGTACTAT GCTTCAGAGT	300
AGGACACACA ATTCTGAGAT TGCTGTAGAG GGCTCGAG	338

## (2) INFORMATION FOR SEQ ID NO:238:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 455 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:

GAATTCGGCC TTCATGGCCT AGTCAGAGCC AAAGGAAAGC TTGAAAAATG AAGACATTAG	60
CAGGACTTGT TCTGGGACTT GTCATCTTTG ATGCTGCTGT GACTNCCCCA ACTCTAGAGT	120
CCATCAACTA TGACTCAGAA ACCTATGATG CCACCTTAGA AGACCTGGAT AATTTGTACA	180
ACTATGAAAA CATACCTGTT GATAAAGTTG AGATTGAAAT AGCCACAGTG ATGCCTTCAG	240
GGAACAGAGA GCTCCTCACT CCACCCCCAC AGCCTGAGAA GGCCCAGGAA GAGGAAGAGG	300
AGGAGGAATC TACTCCCAGG CTGATTGATG GCTCTTCTCC CCAGGAGCCT GAATTCACAG	360
GGGTTCTGGG GCCACACACA AATGAAGACT TTCCAACCTG TCTTTTGTGT ACTTGATAA	420

GTACCACCGT GTACTGTGAT GCCCATGAAC TCGAG

455

## (2) INFORMATION FOR SEQ ID NO:239:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 431 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:

GAATTCGGCC AAAGAGGCCT AGGGGGGTGA TGGTGTGTGC TTTGGACTGT GTGCCTACAG	60
GGTTTTTTTG TTTTGTTTTG TTTTACTGTA ATGGAAATGG GTTTAGGATA AGCATACTCA	120
AAGCTCCACA GTGTATCCTT GAGCTTTCCA TGAAGCCAG TTACACACTG GAGAGGGTTA	180
AATGAATCTT AAAGTGTTC TGAATCTAT TAAATATCAT TATAAAACAA ATTCTTTCGG	240
GGGGGCACAA ATGCTAATAT GTACAAGAAA ATCTTAGACT TGAAAATATC TTTAAAATGA	300
AAATAACTTT TTTTTCAGC TGAAGTATT CACAACCTTG ATGGATGTTA CCAAAGGTCA	360
ATTTGAAAGT CACCTTCGAG ATTGCCCGA CCCTGTGATA GGCTGGTGAG CACACGTTGG	420
CCAGCCTCGA G	431

## (2) INFORMATION FOR SEQ ID NO:240:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 178 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:240:

GAATTCGGCC TTCATGGCCT ACTACAATCC GTGGCTGCTC NTTCTTGCCT ACTTTACTCT	60
CCCCTGAAG CAGGTTANCG TTGAAGGTGG TATGGAAAAG CCTGCATGCC TGTTCATTC	120
TTTTGTTTCT TCTCCTTCCC CCTCCCCCTA CCTCCTTCCC CTACCTCCTT CGCTCGAG	178

## (2) INFORMATION FOR SEQ ID NO:241:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 232 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:

GAATTCGGCC TTCATGGCCT ACATCAACAG CATCAAGTCC AGACTAAGCA AAAGTGGGCA	60
CATACAAACT CTGCTTAGAG CATTGAAGC TCGTGATCGA AACATACAAG AAAGCAACTT	120
TGATAGAGTC AATTCTGGT CTATGGTTAA TTTAGTGGTC ATGGTGGTGG TGTCAAGCAT	180
TCAAGTTTAT ATGCTGAAGA GTCTGTTGA AGATAAGAGG AAAAGTCTCG AG	232

## (2) INFORMATION FOR SEQ ID NO:242:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:

```
GAATTCGGCC TTCATGGCCT ACAAACCTA ACTTGC GCAG AAAACAAGAT GAGATTGGCA    60
TGGCTTTATT TGTTTTTTT GTTTTGT TTT GGTTTTTTTT TTTTTTTTGG CTTGACTCAG    120
GATTTAAAAA CTGGAACGGT GAAGGTGACA GCAGTCGGTT GGAGCGAGCA TCCCCCAAAG    180
TTCATGGGC TCGAG                                         195
```

(2) INFORMATION FOR SEQ ID NO:243:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:

```
GAATTCGGCC TTCATGGCCT ACATATCCTC AAATGGTAGT CATCTGGGGA CTAAGCAACA    60
GGTGTTTCAA GGAATAATT CTCTGGGTTT GAAAAGTTCA CAGTCTGTGC AGTCTATTCTG    120
TCCTCCATAT AACCGAGCAG TGTCTCTGGA TAGCCCTGTT TCTGTTGGCT CAAGTCCTCC    180
AGTAAAAAAT ATCAGTGCTT TCCCCATGTT ACCAAAGCAA CCCATGTTGG GTGGGAATCC    240
AAGAATGATG GATAGTCAGG AAAATTATGG CTCAAGTATG GGAGACTGGG GCTTACCAAA    300
CTCAAAGGCC GGCAGCGGAC TCGAG                                         325
```

(2) INFORMATION FOR SEQ ID NO:244:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 342 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

```
GAATTCGGCC TTCATGGCCT AGGAGGCTAT TTTAGGATTT CAATGAGAAG CAAATCATA    60
TCCAAATCAA AGTAAAGGTC ATCGGTGGCC AATGAAGAGC GGAGAAAACG GAGGCGGGAG    120
AACAGACGCG ACCTCAAGAC AGAAGAATGG AAGACGCAAC TTTCAAGAAA AGAGGAACTG    180
AAACGAAAAG AGAGGCACAG TCCAAATGAG GAAGAGAACA AGGAGCCTTC AGTCTCCTGG    240
GGGCCAGGGA GCCTCGCCAC GCGGTCACAG GTACACGGGG ACATTTAGAG GCCATCTCCT    300
TTAAAGCCAG ACATTCTTCT TACTGGAATC TAGGCCATGA AG                                         342
```

(2) INFORMATION FOR SEQ ID NO:245:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 373 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:

```

GAATTCGGCC TTCATGGCCT AGGCGGGTGA CATTACGCCG GCGGTTCCGG GGGACGGANT    60
CTCCATTCCA GAACCATGGC CCAATTTGTC CGTAACCTTG TGGAGAAGAC CCCGGCGCTG    120
GTGAACGCTG CTGTGACTTA CTCGAAGCCT CGATTGGCCA CATTTTGGTA CTACGCCAAG    180
GTTGAGCTGG TTCCTCCAC CCCTGCTGAG ATCCCTAGAG CTATTCAGAG CCTGAAAAAA    240
ATAGTCAATA GTGCTCAGAC TGGTAGCTTC AAACAGCTCA CAGTTAAGGA AGCTGTGCTG    300
AATGGTTTGG TGGCCACTGA GGTGTTGATG TGGTTTATG TCGGAGAGAT TATAGGCAGG    360
CGGGTCACTC GAG

```

(2) INFORMATION FOR SEQ ID NO:246:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 514 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:

```

GAATTCGGCC TTCATGGCCT AACAGGACC TGCTTCACAC CACCAAGCAT CAGGATGTGT    60
TGCTCAGTGA GCAGACCCGA CTCCAGAAGG ACATCAGTGA ATGGGCAAAT AGGTTTGAAG    120
ACTGTCAGAA AGNAGAGGAG ACAAACAAC AACAACTTCA AGTGCTTCAG AATGAGATTG    180
AAGAAAACAA GCTCAACTA GTCCAACAAG GAAATGATGT TTCAGAGACT CCAGAAAGAG    240
AGAGAAAGTG AAGAAAGCAA ATTAGAAACC AGTAAAGTGA CACTGAAGGA GCAACAGCAC    300
CAGCTGGAAA AGGAATTAAC AGACCAGAAA AGCAAACTGG ACCAAGTGCT CTNCAAAGGT    360
GCTGGCAGCT GAAGAGCGTG TTAGGACTCT GCAGGAAGAG GAGAGGTGGT GTGAGAGCCT    420
GGAGAAGACA CTCTCCCAA CTAAACGGCA GCTTTCAGAA AGGGAGCAGC AATTGGTGGA    480
GAAATCAGGT GAGCTGTTGG CCCTCAGCT CGAG

```

(2) INFORMATION FOR SEQ ID NO:247:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 425 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:247:

```

GAATTCGGCC TTCTGGCCTA GGA CTCTATA GAACCCACTG CCTCCTGATG AAGTCCCTAC    60
TGTTCAACCT TGCAAGTTTT ATGCTCCTGG CCAATTGGT CTCAGGTAAT TGGTATGTGA    120
AAAAGTGTCT AAACGACGTT GGAATTTGCA AGAAGAAGTG CAAACCTGAA GAGATGCATG    180
TAAAGAATGG TTGGGCAATG TGCGGCAAAC AAAGGGACTG CTGTGTTCCA GCTGACAGAC    240
GTGCTAATTA TCCTGTTTTT TGTGTCCAGA CAAAGACTAC AAGAATTTC AAGTAACAG    300
CAACAACAGC AACAACAAC TTAGATGATGA CTA CTGCTTC GATGTCTTCG ATGGCTCCTA    360
CCCGTTTCTC CCACTGGTTG AACATTCCAG CCTCTGTCTC CTGCTCTAGG ATCCCCACGC    420
TCGAG

```

(2) INFORMATION FOR SEQ ID NO:248:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:

```

GAATTCGGCC TTCATGGCCT ACAAAGGAA AGAAGAAAAA GGGCCAAAAG CCAAATGAA      60
ACTGATGGTA CTTGTTTCA CCATTGGGCT AACTTTGCTG CTAGGAGTTC AAGCCATGCC      120
TGCAAATCGC CTCTCTTGCT ACAGAAAGAT ACTAAAAGAT CACAACCTGC ACAACCTTCC      180
GGAAGGAGTA GCTGACCTGA CACAGATTGA TGTCAATGTC CAGGATCATT TCTGGGATGG      240
GAAGGGATGT GAGATGATCT GTTACTGCAA CTTCAGCGAA TTGCTCTGCT GCCCAAAGA      300
CGTTTTCTTT GGACCAAAGA TCTCTTCGT GATTCTTGC AACATCTCG AG              352

```

(2) INFORMATION FOR SEQ ID NO:249:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:249:

```

GAATTCGGCC TTCATGGCCT ACACAATGGT GTTCGCATT TGAAGGTCT TTCTGATCCT      60
AAGCTGCCTT GCAGGTCAGG TTAGTGTGGT GCAAGTGACC ATCCCAGACG GTTTCGTGAA      120
CGTGACTGTT GGATCTAATG TCACTCTCAT CTGCATCTAC ACCACCACTG TGGCCTCCCG      180
AGAACAGCTT TCCATCCAGT GGTCTTTCTT CCATAAGAAG GAGATGGAGC CAATTTCTAT      240
TTACTTTTCT CAAGGTGGAC AAGCTGTAGC CATCGGGCAA TTAAAGATC GAATTACAGG      300
GTCCAACGAT CCAGGTAATG CATCTATCAC TATCTCGCAT ATGCAGCCAG CAGACAGTGG      360
AATTTACATC TCGGATGTTA ACAACCCCCC AAGACTCGAG                          400

```

(2) INFORMATION FOR SEQ ID NO:250:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 278 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:

```

GAATTCGGCC AAAGAGGCCT AAGAGATTCA GGACCTGCAG AGTCGCCAGA AGCATGAAAT      60
TGAATCTTTG TATACTAAAC TGGGCAAGGT TCCCCCTGCT GTCATTATTC CCCAGCTGC      120
TCCTCTGTCG GGGAGAAGAA GGAGACCCAC TAAAAGCAAA GGCAGCAAGT CTAGTCGCAG      180
CAGCTCATTG GGCAATAAAA GCCACAGCT TTCAGGCAAC CTGTCTGGTC AGAGTGAAC      240
TTCAGTCTTA CACCCCAAC AGACCCTCCA CAGTCGAG                          278

```

(2) INFORMATION FOR SEQ ID NO:251:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 187 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:

GAATTCGGCC TTCATGGCCT AGTTTATATA CTTTCTCTGA AGGATCCTAA TGATAGTTAA	60
CCATTTCTCA TTTTATTTT GCTGGATTGT TTTCTGTTT TTGCTTCAGC ATTCTTGCTT	120
TTGCTGTGCT TACTTTTGA GTTTTGATTC CCTGTGTCAC TGTTTTCTTT CGCATCCACC	180
ACTCGAG	187

(2) INFORMATION FOR SEQ ID NO:252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:

GAATTCGGCC TTCATGGCCT ACTTCTCTGG AAAGGTCAC TATTGTTTGT TTTTTCGAGA	60
CAGGGTCTCG CTCTTCACCC AGACTGCAAT GCAGTGGCAC AATCATAGCT TATTGCAACC	120
TCAAACCTCGT GGGCTCAAGC AATGCTCGCT CCTCCCAAGT AGCTAGGACC ACAGGCATGC	180
ACCACGATGC CCACCTAGTT TTTTGTATTT TCTATAGAGA NGGGGGTCTC ACTGTGTTTC	240
TCAAGCTGGT CACATACTCT TGGCCTCAGG CAGTTCTCCC ACATCAGANT CTCAAAGCAC	300
TGGGCTTACA GCTGNGAGCC NGNCCTTTT AAAAAAAAAA AAAAAATCAA AACAAAACAA	360
AACAAGATTA TGTCTTTCCC ACGCATCTCG AG	392

(2) INFORMATION FOR SEQ ID NO:253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:253:

GAATTCGGCC TTCATGGCCT ACTTGGGAAT TAACATCTTC GATAAATCCC AGAAGTCTTT	60
AAGTGACAGT AGAGAGCCTA CAGAGAAGCC TGGGAAAGCA GAAAAATCTA AGAGCCCAGA	120
AAAAGTGTC TCGTTCTCAA ACTCCTCCTC CAACAAGGAA TCAAAAGTAA ACAATGAGAA	180
GTTTCGTACT AAGAGCCCCA AGCCTGCCGA AAGCCCCCAG TCAGCCACTA AGCAGTTGGA	240
TCAGCCCACT GCTGCTTATG AGTATTATGA TGCTGGCAAT CACTGGTGCA AAGACTGCAA	300
CACCATCTGT GGGACTCGAG	320

(2) INFORMATION FOR SEQ ID NO:254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:254:

GAATTCGGCC TTCATGGCCT AATCAGAAGC TTTTCAAAAT TCCGTCTTCA AGAAGAAACA	60
CCCGTGGAGG AAGAAGACAT TATACAAAAC AAATTTAGAA ACTGGGATCA TGAGTGGAAA	120
AACAAAGGCA AGAAGGGCTG CCATGTTTTT TAGACGTTGC TCTGAAGACG CCAGCGGTAG	180
CGCCAGTGCC AATGCTTTGT TATCAGAGGA CGAAAATCCT GATGCGAATG GGGTAACTCG	240
ATCATGGAAG ATTATTCTAA GTACAATGCT TACACTGACT TTTCTTCTTG TAGGACTCCT	300
AAATCATCAG TGGCTTAAAG AACAGATGT TCCTCAGAAA TCCAGACAAT TATATGCCAT	360
GCTCGAG	367

## (2) INFORMATION FOR SEQ ID NO:255:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:255:

GAATTCGGCC TTCATGGCCT AAAGTAGTTC TGTATATAAA AGCCAGGAAT CCTAAAACCA	60
AAATATTAGA ACGAAAACAG AAACATGGCT CACTATATTA CATTCTCTG CATGGTTTGT	120
GTGCTGCTTC TTCAGAATTC TGTGTAGCT GAAGATGGGG AAGTAAGATC AAGTTGTCGT	180
ACTGCTCCGA CAGATTTAGT TTTTCATCTTA GATGGCTCTA ATTGTGTTGG CCCAGAAAAC	240
TTTGAAATAG TGA AAAAGTG GCTTGCAAT ATCACA AAAA ACTTTGACAT AGGGCCGAAG	300
TTTATTCAAG TTGGAGTGGT TCAATATAGT GACTACCCGT TGCTGGAGAT TCCTCTCGGA	360
AGCTATGATT CAGGAGAACA TTTGACGGCA GCAGTGAAT CCATACTCTA CTTAGGAGGA	420
AACACAAAGA CAGGGAAGAA CCTCGAG	447

## (2) INFORMATION FOR SEQ ID NO:256:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:256:

GAATTCGGCC TTCATGGCCT AAATGAAGCA AAATCCATA CATCATTTTG AAAATAGTGT	60
TTCTTTCCCT GATAGGCCTG TTCTGCATCA TTCTTTTAGC TTCCTTCTGC CCTGTTTATC	120
ACTTGGTCCC ACTTTTATAT TTTTCTCTT CGGTCCAGAA TTTCTTATTT AGTTTCTTGT	180
ATTTTGCTTA CTCCTCCCT TCTCCATGAT TCAGCCTAGT CTTCCGTCC TCTGTGGACT	240
TGGGTGTGCC TTCCTCTGGG CCACCTCGTC TTTTGTGCT GTTAGCCCTC CCGCCTGCCG	300
ACCTGCCACT TCACCCTCGC CTGTGGTCCA CTTACGTTCC ACTCAGCCCG GTCAGTCCTG	360
CTTTGTTCTT CTCACCGCC TAGGTCTCGA G	391

## (2) INFORMATION FOR SEQ ID NO:257:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:

```
GAATTTAAGT TCCAGTATGA GATCTTCAAA GCTGTCTTTT TTTTCTTC TTCCGTTCTC 60
AGATCCTGAG 70
```

(2) INFORMATION FOR SEQ ID NO:258:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:

```
GAATTCGGCC AAAGAGGCCT AGTCAAATTC TTACCTCGCT CTTTCACTGC TAGTAAGATC 60
AGATTGCGTT TCTTTCAGTT ACTCTTCAAT CGCCAGTTTC TTGATCTGCT TCTAAAAGAA 120
GAAGTAGAGA AGATAAATCC TGTCTTCAAT ACCTGGAAGG AAAAACAAAA TAACCTCAAC 180
TCCGTTTTGA AAAAAACATT CCAAGAAGT TCATCAGAGA TTTTACTTAG ATGATTTACA 240
CAATGAAGAA AGTACATGCA CTTTGGGCTT CTGTATGCCT GCTGCTTAAT CTTGCCCCCTG 300
CCCTCTTAA TGCTGATTCT GAGGAAGATG AAGAACACAC AATTATCACA GATACACTCG 360
AG 362
```

(2) INFORMATION FOR SEQ ID NO:259:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 453 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:259:

```
GAATTCTAGA CTGCCTCGA GTGCGGATCC AGCCGGAGGC GAAGAGAAGC ACTTTGGGGG 60
CAAAAGAAGA GAAAAATGAA GACGGGACAT TTTGAAATAG TCACCATGCT GCTGGCAACC 120
ATGATTCTAG TGGACATTTT CCAGGTGAAG GCTGAAGTGT TAGACATGGC AGATAATGCA 180
TTTGATGATG AATACCTGAA ATGTACGGAC AGGATGGAAA TTAAATACGT TCCCCAACTG 240
CTAAAGGAGG AAAAAGCAAG CCACCAGCAA TTAGATACTG TGTGGGAAAA TGCAAAAGCC 300
AAATGGGCAG CCCGAAAGAC TCAAATCTTT CTCCTATGA ATTTAAGGA TAACCATGGA 360
ATAGCCCTGA TGGCATATAT TTCCGAAGCT CAAGAGCAAA CTCCTTTTA CCATCTCTTC 420
AGTGAAGCTG TGAAGATGGC TGGCCAATC GAG 453
```

(2) INFORMATION FOR SEQ ID NO:260:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 465 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:260:

```

GAATTCGGCC TTATGGCCTA CTTTAAAAAA AAACCAATAC CAAAGAAGCC TACAATGTTG      60
GCCTTAGCCA AAATTCTGTT GATTCAACG TTGTTTTATT CACTTCTATC GGGGAGCCAT      120
GGAAAAGAAA ATCAAGACAT AAACACAACA CAGAACATNG CAGAAGTTTT TAAAACAATG      180
GAAAATAAAC CTATTCTTTT GGAAAGTGAA GCAAACCTAA ACTCAGATAA AGAAAATATA      240
ACCACCTCAA ATCTCAAGGC GAGTCATTCC CCTCCTTGA ATCTACCCAA CAACAGCCAC      300
GGAATAACAG ATTTCTCCAG TAACTCATCA GCAGAGCATT CTTTGGGCAG TCTAAAACCC      360
ACATCTACCA TTTCACAAG CCTCCCTTG ATCCATAGCT TTGTTTCTAA AGTGCCTTGG      420
AATGCACCTA TAGCAGATGA AGATCTTTTG CCCATCTCCC TCGAG                        465

```

## (2) INFORMATION FOR SEQ ID NO:261:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 491 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:261:

```

GAATTCGGCC TTCATGGCCT AGCGGCGGGG CGAGCGCCTC CACGAGCAA CTCGGAGTC      60
CCCCGCTTGC CCGAGCGCAG TTTCTCCGCT GCTGTTTCCA CCGGCTTTGT AACACTGGGA      120
ATTTACATCC TCACCCGCAC CCCTCAGCC CGAGGATTTT AAACCTACCT TTACTCTCGA      180
ACTGAGAGTT GCGGTAGATG GGATTTTTC CTTTCCCCA GATGGTTGAA GGTAAAGATT      240
TTTGAAACC CCCCCACCTC CTTATTTCTA TTATTATTTC TGCNAGAAAA GTATAAGAG      300
AGTTGTAGTG GAGGTGAGAT TTGTGATCGG GAAAGCCTTC GACTCCCTCC TTCTCCGTCT      360
TCCGCTTCTC TCTCTCTGAT TAGTTCCTAT CCAGCAGCAG ATTGAAGCAG GAGATGATTC      420
TTCTCAAGGT TTGTTTCAGCA GCTTCACTTC TAGGCGAAGG CTTTCATGAAC CAAAGTGACGA      480
ACAACCTCGA G                        491

```

## (2) INFORMATION FOR SEQ ID NO:262:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:262:

```

GAATTCGGCC TTCATGGCCT ACATTTTCTT ATTGATATAA AAATTGTTAG AGAAATATAC      60
AGTTGTATAT TTCCCCCTT TATACAGAAA TTTTACAATA ATTCAGATT TTTCTGAGTT      120
TTTTCAGATT TTTGATTCTA TAATATGAGA TTATTCTTTC TTCCTCTTAT TTTTTAGGT      180
TATTATTTT TTCTTTTCTT TTAAATTGTC TCATACAGGT TTAATCTCGA G                231

```

## (2) INFORMATION FOR SEQ ID NO:263:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 445 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:

GAATTCGGCC	TTCATGGCCT	AGTAAAATTT	AAAATACATA	CTAACATATA	ACCCAATTTT	60
AACATATTAA	GTGAATATGT	ATTCTTAAAA	GATCCACTAC	TTTACATTTA	GATGCGTTAG	120
GATGTATTAG	AAATAAAAAC	AGAAGAAAAG	ATTTAGAATC	TAGTCTGTCT	TTGCCACTCA	180
AGCTAGTTAC	CCTCTCTGAG	TTTTATACCC	CCTTCATCTA	TTAAAATGGG	GGGTAACGCC	240
AACCTGACTC	CTTTAAATG	AGTTTGAGAG	TCAGGCAAAT	TAGAAAAGATA	CATAGATGAA	300
AACTTTTTAA	AAAGTATATA	GTCTTTCATG	ATTTGTAGAA	CACTTTTATA	CTTTTCAGAG	360
TACTTTCACA	TTGATCATAT	TGTTTGTACT	TTATGAAAGT	CTTCTACAAA	TCAGAATTAT	420
GCTTATTATA	CAGATGTGGC	TCGAG				445

## (2) INFORMATION FOR SEQ ID NO:264:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 343 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:264:

GAATTCGGCC	AAAGAGGCCT	AATTACTTTA	TATTTTAAAA	GCTCTGTGAC	TTCAGTAGTG	60
CATTGAAATA	AAATTTTAT	TCATTATGAG	AGAGTCTGTG	AGGAACAGAA	TCATGGTTCC	120
TGTGTGTTTG	AAGATATGGC	GTGGGGTGAT	AGTGCTGGCA	GCAGCTCTGT	TGCTCTTGTTG	180
CCCATGGCAT	ACAGACTGGA	TCTGCTGGTC	CACGGCTCCT	GAGGTTAATG	TCCAAGCCCT	240
CTGCAATGCT	GACAGTCTTC	CTCATCCTCA	CACCCTACCT	CTCAGTTTCT	ACCTGCCACC	300
TCCCAGTAA	TATTAGCCTC	TTGAGTCCCC	AACAACACTC	GAG		343

## (2) INFORMATION FOR SEQ ID NO:265:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 349 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:265:

GAATTCGGCC	AAAGAGGCCT	ATTAAAATTC	ATTTATCAGT	AGGATCATTC	TGTTCTAGAC	60
AAGTTGGCTA	TATTATAAAA	CATTAAGCAA	GCAGGCACTA	AGTTAAATAT	TGTAGCAGTT	120
GAAATTTAAT	GCTAATCTTA	CAGTTTTACA	CAGTTAACAA	TCTAGGCCAA	ATCTATTGAT	180
ACCTTTGGAA	CTACCCTTTA	AATTCCATCC	TATGCTTGTTG	AAAAGGTTGC	ATATAATTTT	240
TTTTCTTTT	TCTCTCTTCT	CTTCTCTTTC	TTTTTTCITT	TTCTTTTCT	ATTTCCCTTT	300
TCTTCCTTTT	TCTTTCACAG	AGTCTTGGA	TATCACCCAC	ACTCTCGAG		349

## (2) INFORMATION FOR SEQ ID NO:266:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 335 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:266:

GAATTCGGCC	AAAGAGGCCT	AGAATAAAAA	TGCTTGTGTC	AAAAATTCAA	ACATTGTGCT	60
CTTTCCTTTC	CATTCCAGTT	CTAGGTCTCG	TTCCAGATCA	TATTCTCCAG	CTCATAACAG	120
AGAAAGAAAC	CACCCAAGAG	TATATCAGAA	TCGGGATTTC	CGAGGTCACA	ACAGAGGCTA	180
TAGAAGGCC	TATTATTTCC	GTGGGCGTAA	CAGAGGCTTT	TATCCATGGG	GCCCAATATAA	240
CCGAGGAGGC	TATGGAACT	ACCGCTCAA	TTGGCAGAA	TACCGGCAAG	CATACAGTCC	300
TCGTCGAGGC	CGTTCAAGAT	CCCGGCTCCC	TCGAG			335

## (2) INFORMATION FOR SEQ ID NO:267:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 380 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:

GAATTCGGCC	AAAGAGGCCT	AGTGGAAATT	TGTGGCTAGT	GTGATTTTTG	TTTGTTTCCT	60
TTTAAGTACT	GTTGATCAGT	TGTGACACTT	ACTGGTTAAA	CTTACGTTGC	TAAAGATTTC	120
TCTATAATAA	GCCACACATT	ATATTAGAC	TATATTAAGG	GACCTTGTT	TTCTTCTAGA	180
TAGCAGCTGT	CCCAAAGAAA	ATATTCTTC	TTGTCTGTT	AAGATTAGC	TATTATCTGC	240
CAGTTGTAA	GAGGTTTTGG	TTCCAAATC	AACCAGCAAT	GTTGAGAGCT	GAACCTAAGA	300
TAGCTGTTGT	ACTTTTTGCT	TTCCATCTGT	TACTGTCCTT	CATTCTTGGC	TCCCTACTAT	360
CTATAACAG	CAAGCTCGAG					380

## (2) INFORMATION FOR SEQ ID NO:268:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 283 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:268:

GAATTCGGCC	AAAGAGGCCT	ATCTAGACCT	GCCTCGAGTC	AGCAACAACA	ATTTTAAAA	60
TTCTTTCTG	GATTCTAGAG	TGAGTTTTT	TCATAACACA	AGAGGATAAG	AGTGAGGACA	120
ACAGGAGGTA	TTGATGATCT	GCTGAGCACC	AGGCATTATG	CTAAGTGCAT	TCACACACAT	180
CTCAGTGCCT	ATTGCCTCGT	TGTGGACTTC	TCTATCCCAG	CTCGTCCCC	TGGCAAATTC	240
TTTCTCATCC	TTCAACTCTC	AGACACCTCC	CCGCGCCTC	GAG		283

## (2) INFORMATION FOR SEQ ID NO:269:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 157 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:269:

GAATTCGGCC	AAAGAGGCCT	AACCAGGCAT	TTTTCATTAG	GTTTCTAGGT	CCAGGTGAAT	60
TCTTGAGTTG	GTTGCTTGTG	TCATGTATTG	GCCTTTAATA	ATGCTCTTAT	TTTGGCCAC	120

GCCTGTGGTC CCAGCACTTT GGGAGGCTGG TCTCGAG

157

(2) INFORMATION FOR SEQ ID NO:270:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 157 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:270:

GAATTCGGCC AAAGAGGCCT AACCAGGCAT TTTTCATTAG GGTTCAGGT CCAGGTGAAT	60
TCTTGAGTTG GTTCGTTGTG TCATGTATTG GCCTTTAATA ATGCTCTTAT TTTGGCCAC	120
GCCTGTGGTC CCAGCACTTT GGGAGGCTGG TCTCGAG	157

(2) INFORMATION FOR SEQ ID NO:271:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 368 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:271:

GAATTCGGCC AAAGAGGCCT ACCCAAATAA AATCAGAGTC AGAAATGGAA ACAGACAGTG	60
GAGTACCTCA AAACACTGGA ATGAAAAATG AAAAAACAGC CAACAGGGAA GAGTGTGCA	120
CCCAGGAGAA AGTTAATGCA ACAGGACCAC AGTTCGTGAG TGGAGTGATT GTGAAGATCA	180
TTAGCACAGA GCCTCTACCT GGCAGGAAAC AAGTCCGGGA TACTTTGGCA GCAATCTCAG	240
AAGTTCTTTA TGTGATTG CTAGAAGGGG ATACAGAATG CCATGCTAGA TTTAAACTC	300
CTGAGGATGC TCAAGCAGTA ATAAATGCCT ATACAGAAAT TAACAAGAAA CACTGCTGGA	360
AACTCGAG	368

(2) INFORMATION FOR SEQ ID NO:272:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 367 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:272:

GAATTCGGCC AAAGAGGCCT ACAACGAACG GCTTGGGNGC GGACTGGTAT CCGGGGACTG	60
TGACTTGCGAG GGTCCGCCAT GGAGCCAGAG CAGATGCTGG AGGGACAAAC GCAGGTTGCA	120
GAAAATCCTC ACTCTGAGTA CCGTCTCACA GACAACGTTG AGAGAATAGT AGAAAATGAG	180
AAGATTAATG CAGAAAAGTC ATCAAAGCAG ANGGTAGATC TCCAGTCTTT GCCAACTCGT	240
GCCTACCTGG ATCAGACACT TGTGCCTATC TNATNACAGG GACTTGCTGT GCTTGCCAAG	300
GANAGACCAC CACATCCCAT TGAATTTCTA GCATCTTATC TTTTAAAAA CAAGGCACAG	360
ACTCGAG	367

(2) INFORMATION FOR SEQ ID NO:273:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 250 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:273:

GAATTGGGT CCTAGGATAT AAATATTTT CCCTTTATAA GATATTTATA GGATATTGCA	60
AACAATTCT GTTTTTCAT ATCCTTGCCA GCAGTTAGGG TTATCAAAT CTTTGATTTC	120
TTACTGATT GTAAGTTTT TTGTTTGT TTAGGTATTT TCAGGATAGT TACAAATGTT	180
AGGAAACTT ATTTTATTT GGCTTTTGAA GTTCCAGAT TTCTTGAACA GTGACCAATA	240
TGGACTCGAG	250

(2) INFORMATION FOR SEQ ID NO:274:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 133 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:274:

GAATTCGGCC AAAGAGGCCT ATCTTTTTC CTCTTTTTC GTTGCAAAA TGATAACCTA	60
CTATTCATA TTCTGTGCCT TGCTTTGTTT GCATACTGAA AATTATCCAT GGAAGGATAC	120
AGCACCACTC GAG	133

(2) INFORMATION FOR SEQ ID NO:275:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 396 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:275:

GAATTCGGCC AAAGAGGCCT AATGAAACAT TTCTGTAACC TGCTTTGTAT CTTGATGTTT	60
TGTAATCAGC AAAGTGTATG TGACCCGCCT TCACAAAATA ATGCAGCAAA TATTCCATG	120
GTTCAGCTG CTTGAGCAGG ACCCCATCT CTGAGAAAAG ATTCGACTCC AGTTATAGCC	180
AATGTAGTAT CATTGGCAAG TGCCCTGCT GCTCAGCCTA CAGTGAATTC TAACAGTGTC	240
TTACAAGTG CAGTTCCAAC AGTAACAGCG AAAATCATCG GTGATGCAAG TACTCAAACA	300
GATGCCCTGA AACTGCCACC TTCCAACCT CCAAGGCTTT TGAAGAACAA AGCTTTATTA	360
TGCAAAACCA TCACACAGAC TAAAGCCACA CTCGAG	396

(2) INFORMATION FOR SEQ ID NO:276:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 391 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:276:

GAATTCGGCC	AAAGAGGCCT	ACCCCTCCCC	ATTCTAGTT	TCATGAACTG	TGCACAGGGA	60
TATGGGGCTG	TTCGAGGTAC	TTTTGGGCTG	ACCAAGGCTC	AGAGGCTACT	GACAGCTTTG	120
CTGCAAGTAA	CTTCTAGGCC	TTGTGGGTCC	CAGTGCAGGG	AACCCATGTG	CGGTGACACT	180
GGAGAAGCCA	TCTGATCCAG	GTCTCTCACT	TGACAGATGG	GGAAACTGAG	GTCCAAAGAG	240
GTACAGCAGC	TTGGTTTAAG	AGATAGAGAT	GGAAGTGGAA	CAAAAATAAT	AACCATTGTA	300
TAATATTTTA	ACATTTATTG	ATTTGTTTTT	ATATGCCAAG	ACCTTTTAAA	GCATTATCTC	360
CTTTAAACTC	TCATAACCAC	TCTTACTCGA	G			391

(2) INFORMATION FOR SEQ ID NO:277:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:277:

GAATTCGGCC	AAAGAGGCCT	ACTGCTTCCT	GATCATTGT	CTTTTAAAT	AAAAATATGA	60
TATTTGAGAT	TCTTTATTC	TCTTTAAATA	TTTGAATACA	GAGTCTATTT	GAAGGACCAG	120
TATATTGAAT	AGCAGTAATA	TTTGAAGGAC	TAGTCAGCTG	TAGAAGCCTT	GACTTCAGAT	180
CTTCACCCAA	GAAACTCTGT	GTATTGCTT	TTCTGGGCC	ACTCAGATAG	ACAATTGTGT	240
TTTNGATACA	GTAAGAGTTT	GCAGCTTAGC	TTAACTAGAA	ATAATCCGGA	TGCCTCGAG	299

(2) INFORMATION FOR SEQ ID NO:278:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:

GAATTCGGCC	AAAGAGGCCT	ACTAGGATTT	GAGGAGGACG	CCTCTTTTGC	AGGAGGATGC	60
AGTGAACAGC	CAAAGTCATC	TGACATCCTT	TTCCATCTTT	TTCCCTTCTAG	TATCCCAGTT	120
TCAAGGCCCA	GGAAAGGCAG	GGACTAACAT	ATGGAGCAGT	TACCCACAGAG	TTCAAAGGGT	180
TAATCTCTAA	GAATTCATTC	TCTGACACCA	GCCACAGCTC	TTGTCCCCAT	CTCTGGGACC	240
GTCCCCTCTG	AGCCCCAGGT	TGGCAGCTTC	CCTGAATTCC	TTCTATGATA	TAATTTGTAA	300
TTCCGCAGGG	CTCTGGGACC	CAGGCTCAGA	GACCCAGGCT	CTGCTCTCTC	CTCAGTTTCC	360
AGGAGTCAGG	GCTTGCTCTA	AGGGAGGAAG	TAAACAGGCC	TTTCCCTTGC	TCCCTCTCCT	420
TTTCTCTCGA						430

(2) INFORMATION FOR SEQ ID NO:279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:279:

GAATTCGGCC AAAGAGGCCT AGTGGGAGTT AGATGTATTA TATAAAATG TCCCCAGCAT	60
CAAAATGACT CAGAGTATGA CTGTATTTT AAATTAAATA TCAAGACCTA TCATCTGACA	120
AAACATATGA ATGACAATGA GATATAATAT TTGAAATTAG ATCCGTTCTG GGGAAATCAA	180
GATATTTTGT AACAGTATAC ACAGTAGGCA TTGGTAAGTA AATGAGAACT CTATGAGCTG	240
TTTTCTGGAA AAGTTTAAAA TGAAATTTGT CAAATATCAA ATGATTGTTA TAAGAAAATC	300
AGTGGAGGCA GTATCCTTGG AAAAATCCAG AAACAGTTT GTNTGTTGT TGTITTTTAC	360
ATCAAGGCAG ATCAGCAGGT GAACAGCTCG AG	392

(2) INFORMATION FOR SEQ ID NO:280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:280:

GAATTCGGCC AAAGAGGCCT AGAAGAACT TTTCTTGGG AGCAAGGTAG TTATTTCAAA	60
GCACAGAAAA AGGCGGCGGG GGGCACAGAG AAGCACAGAG AAGCGGGGGC AGTTGCTCAG	120
GTAAACATT CATCTTGGCT TTTCTTTTA AAAGATAAAC TTGTCCAC GTAAGAGGA	180
AACTGCATA GATATTCATT GAGATTATCT GATTGTGTC TGTGCCCCA GAAAAACAA	240
AGGTAAAATA CACGAGTTT TGCATTGAGA AGAAAGTATT TCAGGTAAAA ATTAATATT	300
AAGCAACTTT TCTCAGCAGA AGAAATGCCC AAATCTTAA GGACAGTACT CGAG	354

(2) INFORMATION FOR SEQ ID NO:281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 308 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:281:

GAATTCGGCC AAAGAGGCCT ACTTGAGAT TTTTGTGTTG TTGTTTCCTT TTGTATTTT	60
ACTGATATCA CCAGGATAGT TTAATCTCCT TCTAGCTTTC TGCTTACCGC AACTGGATG	120
ACACACACAT ACACACCCGC AAAAATGCTC ATGAACCCAA TCCGGAGAAG GTTCCAGCAG	180
GTCCCCCACC CTCCCCTCCT CGTCTACTT CTCCTCTGA CAGCGAGGAC AGGAGGGGGA	240
CAAGGGGACA CCTGGGCAGA CCCGCCGGT CTCCCCCAC CCCACCCGC CCTCANATCA	300
TACTCGAG	308

(2) INFORMATION FOR SEQ ID NO:282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:282:

GAATTCGGCC AAAGAGGCCT AGACCTGCCT TGTGTTTTCC ACCCTGAAAG AATGTTGTGG	60
CTGCTCTTTT TTCTGGTGAC TGCCATTCAT GCTGAACTCT GTCAACCAGG TGCAGAAAAT	120
GCTTTTAAAG TGAGACTTAG TATCAGAACA GCTCTGGGAG ATAAAGCATA TGCCTGGGAT	180
ACCAATGAAG AATACCTCTT CAAAGCGATG GTAGCTTTCT CCATGAGAAA AGTTCCCAAC	240
AGAGAAGCAA CAGAAATTTC CCATGTCCTA CTTTGCAATG TAACCCAGAG GGTATCATTC	300
TGGTTTGTGG TTACAGACCC TTCANAAAAT CACACCCTTC CTGCTGTTGA GGTGCAATCA	360
GCCATAAGAA TGAACAAGAA CCGGATCAAC AATGCCTTCT TTGTAAANGA CCAAACCTCTG	420
GAATTTTAN AAATCCCTTC CACACTTGCA CCACATCTCG AG	462

## (2) INFORMATION FOR SEQ ID NO:283:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:283:

GAATTCGGCC AAAGAGGCCT AGCAGATTCT TAATTCCCT GTCCATATTT TCCCCTTCC	60
TTTCTCCCTG CCGTTCCAT GGTCTTATCT GGCTGCTTTC TCAATTTATT CTTGGTTGCT	120
TGTGGATTCC CTTCTATTAA TCTTGAAGTC GTTACTGACA TGTTGGCCC TATACCAGCT	180
AGACCATTGC CTGAAGACTT TTTGATGAAC AATCTGTGTA AAGAAAAAGG GAATCTCGAG	240

## (2) INFORMATION FOR SEQ ID NO:284:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:284:

GAATTCGGCC AAAGAGGCNT ACCAGGANTT TCTATTCAAT TGAGAAGAAC CCAGCAAAAT	60
GGGGATCTCC ACAGTCATCC TTGAAATGTG TCTTTTATGG GGACAAGTTC TATCTACAGG	120
TGGGTGGATC CCAAGGACTA CAGACTACGC TTCCTGATT CCCTCGGAGG TGCCCTTGGA	180
TACAACTGTA GCAGAAGGTT CTCCATTTC CTCGGAGTTG ACCCTGGAGT CAACTGTAGC	240
AGAAGGTTCT CCGATTTCCT TGGAGTCAAC CCTGGAGTCA ACTGTAGCAG AAGGTTCTCT	300
GATTCCCTCA GAGTCAACCC TGGAGTCAAC TGTAGCAGAA GGACTCGAG	349

## (2) INFORMATION FOR SEQ ID NO:285:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:285:

GAATTCGGCC	AAAGAGGCCT	AAAAAATAA	GAAATAATCT	ATTCCACATT	TAATAATTG	60
AATCTTCCTG	CTATAGATAT	TTGGTTATCT	TGACTTTTAA	ANATAACATA	TTTCTACAGG	120
ATTTTGAGTC	TGAGAAGAGA	AAGGTAANAT	GCAAGACACT	TCGATTGTG	GCACATTATT	180
ATGGAGCATC	ATTAATGGTT	TGNACATTTC	TTGTCCTTTG	GGCTTGAATG	GACAGTACCA	240
AATTTGGGGT	AATCAGCAAC	TTGATGCACA	GCTACGAGGA	ATAAATGCTT	TTGCTAATGC	300
ACTCGAG						307

## (2) INFORMATION FOR SEQ ID NO:286:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:286:

GAATTCGGCC	AAAGAGGCCT	AAAAGATTAA	AAAAAAATTT	GTGTGATTTG	ACTATATATT	60
AAAATCTCTT	TCATAATTAG	TCAACAATTT	AAGCAACAAT	TAAATTATTA	GTGCTGTGGA	120
AAATATAGAA	GAAAGATAAT	TTCTTATTCC	CCTCCTGAGG	AAAGCATTTG	ATACACCTGG	180
AAAGGAGCTG	CTATGAAGCC	AATTTATCTG	TTCTTTTTAT	CAATTCAGCA	GCATTTAAGA	240
TCAGATTTT	TCTCTAGTGG	TCCAGCAGAG	GGAGCCCTAG	CACATGAATT	GTTTTCATT	300
CGTGCTTGCA	CCCAGGATCT	CGAG				324

## (2) INFORMATION FOR SEQ ID NO:287:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:287:

GAATTCGGCC	AAAGAGGCCT	AAGAGAGATC	AGTAAAACCA	CTGGNAAAGA	AAAGATGGAG	60
AAAATGTTGG	AAAACCAGAA	CTGTNTGCTG	TCAAGNTCAT	GTGGAATGTT	CAAGAAAGAA	120
TCTGACTCTA	TTATCTAATA	TCTTACATAC	NTCCACCAGA	CTGGACTTGC	TATTTGAATT	180
TTAAGCAAGT	TTCTTTTCTT	TTTATACAAA	TTGCAAATTT	CATATTTTAA	TAATCACATC	240
CTAGGAATAG	CACAATAATT	GGGAAATAGA	ACCCTTATCA	CTAGNAGAAC	CATTTTCCTG	300
CCACTCTCGA	G					311

## (2) INFORMATION FOR SEQ ID NO:288:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 307 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:288:

GAATTCGGCC	AAAGAGGCCT	ATGCCCCATA	AAAGGGCTCC	TGAAGCTCTT	TGTGAAGGGG	60
TCTGAAAAGG	GCAGATGAGG	GTGTCCTTTG	GGGCGGATGT	GGGTTTGGG	ACAATTGCAT	120

GTGATTGTCA TTCTTTAGCT GTCTGCATCC CACAGAACT TTTTCTGAG TCTTCAGCT	180
GGCCCAAGTC CTGGGTCTCT TTTACTGTTT TTGTAGCTGA CTACAGTAGG CAGATGAGGA	240
ACTCTTAGTC AATCTGAAA AACTCGACTG ACTATAAACA ATCCTAAATT GAAAGAAAAG	300
TCTCGAG	307

## (2) INFORMATION FOR SEQ ID NO:289:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 477 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:289:

GAATTCGGCC AAAGAGGCCT AGCCGGTGTG GGGAGGATTG GCTCAGCCAC CCGCTGGGAA	60
TCGTGCAGGG ATTCTTCGCC CAAAATGGAG TTAATCCTGA CTGGGAGAAG AAAGTAATTG	120
AGTATTTTAA GGAAAGCTG AAGGAAAATA ATGCTCCTAA GTGGGTACCA TCACTGAACG	180
AAGTTCCCCT TCATTATTTG AAACCTAATA GTTTGTGAA ATTTGTTGC ATGATTCAGG	240
ATATGTTTGA CCCTGAGTTT TACATGGGAG TTTATGAAAC GGTTAACCAA AACACAAAAG	300
CACATGTTCT TCATTTTGA AAATATAGAG ATGTAGCAGA GTGTGGGCCT CAACAAGAAC	360
TTGATTAAAT CTCTCCACGA AATACCACTT TGGAAAGACA GACTTTCTAT TGTGTTCCGG	420
TGCCTGGGGA ATCTACGTGG GTAAAAGAAG CCTATGTAA TGCAAACCAA GCTCGAG	477

## (2) INFORMATION FOR SEQ ID NO:290:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:290:

GAATTCGGCC AAAGAGGCCT AAAAAAATCT TCTGGAATA ATTCTTAGCT GTGTAAGAAA	60
TTTGATACTT AAGGAGACAG CAGTGGAGTC ACTTAACTAA TTTGTGTTGG TTTTGTACCT	120
GCATAGTGAC TGCCATTTAC TTTTATGTTT TGGTCAATTA GATACTAAGT AAAAAGATAG	180
TTGGTATTTT GGCTTCAGAT CAGGTCTATT TCCCAACCTT CTATATATCC TTTCTGTGAT	240
TAAACAAAT AAACAATCCT CAGTATCATC ATTAAACACC TCTAACTGAT AGAAAAAATG	300
AGGTGTGGG TCCTCGAG	318

## (2) INFORMATION FOR SEQ ID NO:291:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 213 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:291:

GAATTCGGCC AAAGAGGCCT AACCTGGGA TTTTCTATAT ATATGATGGT CTCATTGTG	60
NATAACACA ATTTTATTTT TTCCTTTCCA ATCTGGATGC TTTTTTTTTT TNCCTATTGC	120

ACTGCCTATT GCATTCCTAA AAATCCATT CCAATGTTCA ATAGAAATGG TGAAAGTGGA 180  
 CATTGGAATG GAGTTTTTAG GAATGCACTC GAG 213

## (2) INFORMATION FOR SEQ ID NO:292:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 644 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:292:

GAATTCGGCC AAAGAGGCCT AAAAAGAATT AACCAGCTCT TCAGTCAAGC AAATCCTCTA 60  
 CTCACCATGC TTCCTCCTGC CATTATTTC TATCTCCTTC CCCTTGCATG CATCCTAATG 120  
 AAAAGCTGTT TGGCTTTTAA AAATGATGCC ACAGAAATCC TTTATTACCA TGTGGTTAAA 180  
 CCTGTTCCAG CACACCCCAG CAGCAACAGN ACGTTGAATC AAGCCAGAAA TGGTTGCAGG 240  
 CATTTAGTA AACTGGACT GGATCGGAAC ACTCGGGTTC AAGTGGGTTG CCGGGAANKG 300  
 CGNTCCACC AAATACATCT CTGATGGCCA GTGCACCAGC ATCAGCCNTA NGAAGGAGNT 360  
 GGTGTGTGCT GCGAGTGAC TTGCCCCTGC CAGTGCTCCN TAATTGGNTT GGAGGAGGCT 420  
 GTGGAACAA GTANTGGAGC AGGAGGAGCT CCCAGGNGTG GCGGTGTGTC AATGACAAAA 480  
 CCNGTACCCA GAGAATCCAG NTGCAGTTCC AAGATGGCNG CACACGCACG TACAAAATCA 540  
 CAGTAGTCGG TGCCNGCAAG TGCAAGAGGT ACACCGGCA GCACANNGAG TCCAGTCAGC 600  
 ANTTTGAGAG CATNTCACGT GCCAAGCCAG TCCAGCAACT CGAG 644

## (2) INFORMATION FOR SEQ ID NO:293:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:293:

GAATTCGGCC AAAGAGGCCT ATTTNTGGAT GGTGCTAGCG AANTAGAGGC TAATCCCCAA 60  
 CATGAGGTC TTCTAATTTC ANGTTGTGA TTTCCAGTG AAAGAAATNA ANAAGAATTT 120  
 GCAGATTCGT GGAGACTTGG GAAGGATATN AAGCTGTCTT ACAACCCCAG ATTCACCCAA 180  
 AATTCAGCAA ATCACTGAAT ATTCNNAATA AAAATTGAAG TATTTTCNAA CTTGAGTTTT 240  
 TATCTCCAGA GGTNACGTC CNATGTAATC CGAAATCCTC ACGANGACAT AACCTCGAG 299

## (2) INFORMATION FOR SEQ ID NO:294:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:294:

GAATTCGGCC AAAGAGGCCT ACAACAACAA CAAAAGAAGA ATACTAATTA GAATTTGAGT 60  
 TCTAGGGGTT TTTCTAGGT TTTTCATCT AGACTTAGCT TTTATTCAA CCTGTTGATC 120

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CTGCATAGGG GTAGTCTAGC TTTAAAAAAT AAAACAATAA ACATAAATGA GCCTATTGAG    180
TTCAATCAGA GTAGGGAGCA GTTTTATTGA ACAGCACATT TTCAAATTCT TCAGTTGTGT    240
TTTGTTTTTC AGCTACGTGT CTCTCTGTGA TAATGAAAAG ACAGGTTGCA AAGCCCGGGA    300
TTCGCTCGAG                                     310

```

## (2) INFORMATION FOR SEQ ID NO:295:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:295:

```

GAATTCGGCC AAAGAGGCCT ACATCTATTG AGGAAAACCA CAAAAAAGCT CAAAACAGCT    60
ACAACGGGAA AAAGAGAGTT TTGTCCACCA GTCAGCAGGC CACTAGTTTA TTAACCTCCA    120
GTCACTTGA TTTTGTCTAA AATGAAGACT CTGCAGTCTA CACTTCTCCT GTTACTGCTT    180
GTGCCTCTGA TAAAGCCAGC ACCACCAACC CAGCAGGACT CACGCATTAT CTATGATTAT    240
GGAACAGATA ATTTTGAAGA ATCCATATT AGCCAAGATT ATGAGGATAA ATACCTGGAT    300
GGAAAAATA TTAAGGAAAA AGAACTGTG ATAATACCCA ATGAGCTCGA G              351

```

## (2) INFORMATION FOR SEQ ID NO:296:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 330 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:296:

```

GAATTCGGCC AAAGAGGCCT AGAGTGAGAC CTTATCTTAA AAAAAAAAAA AAAAAAATTG    60
TCTATGATTT TTTTAAAGC TTTTATTTT GAACTAATTT TAGACTTGCT TAAAGTTGC    120
AAAAATAAGA CACAAGTTTC ATATATCACT CAATCTGCTT CCTGTAATAT TAACAACATA    180
AATAGCCACA GGGAAATCTT CAAGACCTGG AAATTAAGTG TAGGACAGCA CTATACCTA    240
AACCACAGCT CTAATTTGAA TTTATCAGT TTTTCTCCTA ATGCTGATTT TCTGTTCCAG    300
GATCCTATCC AGGAGCCAC ATTGCTCGAG                                     330

```

## (2) INFORMATION FOR SEQ ID NO:297:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 439 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:297:

```

GAATTCGGCC AAAGAGGCCT AAAAAAATAT AAGTAACAGA GGNAGAAATA ACTGTTATTT    60
GTCAAGTGAC AAGCTTTTAA TGTCAGAATG GCTCACCTAA AGCGACTAGT AAAANTACAC    120
ATTAAAAGAC ATTACCATAA AAAGTTCTGG NAGCTTGGTG CAGTAATTTT TTTCTTTATA    180
ATAGTTTGG TTTAATGCA AAGAGAAGTA AGTGTTCAT ATTCCAAGA GGAATCAAGG    240

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ATGGAAAGGG	ACATGAAAAA	CCAAAACAAG	ATGTTGGATT	TAATGCTAGA	AGCTGTAAAC	300
AATATTAAGG	ATGCCATGCC	AAAAATGCAA	ATAGGAGNCA	CCTGTCAGGC	AAAACATTGA	360
TGCTGGTGAG	AGACCTTGT	TGCAAGGATA	TTATACAGCA	GCAGAATTGA	AGCCTGTCCT	420
TGACCGTCCA	CGTCTCGAG					439

## (2) INFORMATION FOR SEQ ID NO:298:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:298:

GAATTCGGCC	AAAGAGGCCT	AATTATTTCT	TGTCTCTCCC	CAAATGAAAT	CTGGGACATT	60
ATGACAAATTT	ATTTTCTAA	GGATGATCTT	GGTCTGCCT	ATTGAAATGT	CCTCACTCAC	120
CTCCAAGAGG	AAGGGGATG	GCTTCAGAAA	ATGTCTTTAA	GTGTTTTTAT	TTTTCACGAG	180
TTATTTATTG	CAACACTAGC	TCTTCCCTGC	AGGAAGCTAT	ATAATTGTGT	GCTTAATTGG	240
TAACATAGAA	GAATTCCTAG	CTACTTCCTA	GAGAAATAC	TGTTGAATTC	CTTGTCACCTC	300
AAGTATCTGT	TAAAAACTCA	ACCGTGGGAA	ACAATGTCTA	TGGATGCCTT	TGGGAAAATA	360
CACATTTTAC	CTATTATTTC	ATCTTTTTTC	TCACTTTGTC	AAGTAGTAGG	TACCCCACTG	420
TACTCGAG						428

## (2) INFORMATION FOR SEQ ID NO:299:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:299:

GAATTCGGCC	AAAGAGGCCT	AACATTATCG	ATTCCATTTT	TTTACTGTTG	TAATCTGCT	60
TCTTATTGCC	TGTGTAAATT	TCTGCTCTAT	ATTAGTTTCC	TGATACCCTA	TCATTAATTC	120
AGTCTGCCCT	TTTTTCATAT	CATTCTACTG	TTTTGTCTCA	TCTTCCTTAT	ACTTTATTCA	180
GAGACTGTGT	TTTCATGAAG	TTTGTGAAAA	ACATTTTAAA	AATTGTTTAA	AATGTACTCT	240
TTGTCTATTT	CTTGCTATTT	TTTCTTTTTC	ATATTCTGGA	ATATATCCAC	AGCGCTCGAG	300

## (2) INFORMATION FOR SEQ ID NO:300:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:300:

GAATTCGGCC	AAAGAGGCCT	ATAGATTGTT	ACATTTGTTC	TGTGCATTCC	ATGAAGTTTC	60
TTACCCTTAG	AGTTATTTCT	GTCTTAGTAA	CAGCAACAAG	TGGGAATGGA	GACTTTGGTG	120
ACTGGAGTGC	CTTCAACCAA	GCCCCATCAG	GCCCTGTTGC	TTCCAGTGGC	GAGTTCTTTG	180

GCAGTGCCTC ACAGCCAGCG GTAGAACTTG TTAGTGGCTC ACAATCAGCT CTAGGCCAC 240  
 CTCCTGCTGC CTCAAATTCT TCAGACCTGT TTGATCTTAT GGGCTCGTCC CAGGCAACCA 300  
 TGACACTCGA G 311

## (2) INFORMATION FOR SEQ ID NO:301:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 392 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:301:

GAATTCGGCC AAAGAGGCCT AGCGCGGTGT GTCGTGGTGT GGCGCGGTGT GGCATGGCGT 60  
 GGTGTCCCAG CTGCTACAC ATTGTGGTT TTAAATGTT TGTGGATAC AGTAACACTT 120  
 TGTTAATTTT AATTATATGC AAGATACTT GATTGCCCTA AACAGCCAT TTGGGTCAAG 180  
 ATAAAGCCAT CGCCTCTGA AGGGGCTGA GCTGGGTGTC TCCTCCATCA GTCGNTGTGA 240  
 TAACTCTATG CCAGTTTCGA TTTCCAAAGT CAGAAGTGCA AAGCAGGGCT GGTTATTAAT 300  
 CNTGTCAAAT CGTCCAGGTC CTGTGTGTC GNACTCCATT ANTTATNTAG GTCCATANGA 360  
 TGTGTCTTAC NACGNAACAA ACCCCTCTCG AG 392

## (2) INFORMATION FOR SEQ ID NO:302:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 387 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:302:

GAATTCGGCC TTCATGGCCT AATGGAATTT GAGTCCAAAG GTAAATATAT TAAACATATA 60  
 GATAAGAAGA AAAGAAAAAC GTTATTTAAG TATCTGATCA GCTCTGCACC CCAGGGACCT 120  
 CCACITTTGC CCAGGTTTGA GAATTTGATC TATAGAATTA CCTGCATTCT TTCCCGTCA 180  
 TCCATCCAAT CAGCCACCTT TCTCCCTTCA AAGAAGTGTC TTCATTTTTT TCCTTCTTTT 240  
 GTTATTTTGA TTGACTGCCC ATCACTGTTA TTAAATCCTT CCTCTTTTTT TTGAATGAAG 300  
 CAGCAGAGCC TTTTATTTTG TTTTCCTTGT TTTGTTTTT GTTTTTGTGT TTCAGAAATG 360  
 ACAGGGCTGT ATCAGAGCAG TCTCGAG 387

## (2) INFORMATION FOR SEQ ID NO:303:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 338 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:303:

GAATTCGGCC TTCATGGCCT AAAAATTAAG CAAGCAATAC CTAGCCAATA GTTCTGCTTA 60  
 ACTTTTNGGT TAAGTATTTT GTTGGGATTC CTATAAATAA TTTTTCACAC AAAGTTTAA 120  
 ATTTCTGGTG TACTTTGACT CTCAACTGAG AGTGGATAGA GTTTTTCTTT TGAGGATTAC 180

ATCTTAAAT GTCCATCGCC TGGCTGGTTA TAAGCATTTG TCACCTTTTG AAGGTAAAT	240
ATACTCTGGC CCTTCTTGAC TCAGTTACAG GTCATTTTAG GTCCAGTAAT AAGAGTCAGG	300
TGTTTGGTTA TIGCTTTCAG AGTCAGACAA ATCTCGAG	338

## (2) INFORMATION FOR SEQ ID NO:304:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 478 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:304:

GAATTCGGCC TTCATGGCCT ACGAAGAAAA AATATTTTNG AGAGAATTTC CCAGATTGAA	60
AGAAGATCTG AAAGGGAACA TTGACAAGCT CCGTGCCCTC GCAGACGATA TTGACAAAAC	120
CCACAAGAAA TTCACCAAGG CTAACATGGT GGCCACCTCT ACTGCTGTCA TCTCTGGAGT	180
GATGAGCCTC CTGGGTTTAG CCCTTGCCCC AGCAACAGGA GGAGGAAGCC TGCTGCTCTC	240
CACCGCTGGT CAAGGTTTGG CAACAGCAGC TGGGGTCACC AGCATCGTGA GTGGTACGTT	300
GGAACGCTCC AAAAATAAAG AAGCCCAAGC ACGGGCGGAA GACATACTGC CCACNTACGA	360
CCAAGAGGAC AGGGAGGATG AGGAAGAGAA GGCAGACTAT GTCACAGCTG CTGGAAAGAT	420
TATCTATAAT CTTAGAAACA CCTTGAAGTA TGCCAAGAAA AACGTCCGTG CTCTCGAG	478

## (2) INFORMATION FOR SEQ ID NO:305:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 568 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:305:

GAATTCGGCC TTCATGGCCT AGACGAGCGG AGTAAATCT CCACAAGCTG GGAACAAACC	60
TAGTCCCAAC TCCCACCCAC CGGCGTTTCT CCAGCTCGAT CTGGAGGCTG CTTCCGCCAGT	120
GTGGGACGCA GCTGACGCCC GCTTATTAGC TCTCGCTGCG TCGCCCCGGC TCAGAAGCTC	180
CGTGGCGGCG GCGACCGTGA CGAGAAGCCC ACGGCCAGCT CAGTTCTCTT CTACTTTGGG	240
AGAGAGAGAA AGTCAGATGC CCCTTTTAAA CTCCCTCTTC AAAACTCATC TCCTGGGTGA	300
CTGAGTTAAT AGAGTGGATA CAACCTTGCT GAAGNTGAAG AATATACAAT ATTGAGGNTA	360
TTTTTTTCTT TTTTTTTTCA AGTCTTGATT TGTGGCTTAC CTCAAGTTAC CATTTTTTCAG	420
TCAAGTCTGT TTGTTTGCTT CTTCAGAAAT GTTTTTTACA ATCTCAAGAA AAAATATNTC	480
CCAGAAATTG AGTTTACTGT TGCTTGATT TGGACTCATT TGGGGATTGA TGTTACTGCA	540
CTATACTTTT CAACAACCAA GACTCGAG	568

## (2) INFORMATION FOR SEQ ID NO:306:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 349 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:306:



GAATTCGGCC TTCATGGCCT AATCAAAAAT ACCTTACCTT GTTCTGCCCT GTGAAAGTAG	60
CCTAAGGCCT GTCAAAAACA CAAAGAGCCC AAACATAATA AAAAAGATTA AAGAAGACAA	120
TATTAAANAA GCATTGTCTC AAAGATCTAC TGCTATATTA TATTTAAGTC AGGAAGTAAA	180
TCATCTTAAA ATAATGGTCA CTTCTTCAAC AGTGAGAGTT AACACCCAAA GTGAACGTAA	240
CACTTCAATC ATCAAGATTA CAATATATGG ACTACTTCTG GTAATAACTT GGTGCTGT	300
TAGAATTGT ACCAACTAA CATCATGTGC AGAGAGGAAA GAACTCGAG	349

## (2) INFORMATION FOR SEQ ID NO:307:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:307:

GAATTCGGCC TTCATGGCCT AGTGATGGGG ATGTGATGTG GGCATCTGCT AATTCGTCTG	60
CAACTACATG ACCTAAGATG GCCTCATTAA TCTAAGGGGC CTCAGCTGGA ACACCTGCCT	120
CTGCTGGATA ACCCAGGTCT AGTGTATCC TCCAGACTAG ACCTGGCTTC TTCTGTGGCA	180
GTCTCAGGGC AGTGTCCAA GACGGTGAGA GCAGAAGCCT AGGTTTGGCC ACATATCCCT	240
AACCTCATAGG ATGGTGACAT AAACCTCTACC TCTTATGGAG AAATAGCAAG TTACACTGCA	300
TACGGGACGA CTCGAG	316

## (2) INFORMATION FOR SEQ ID NO:308:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 445 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:308:

GAATTCGGCC TTCATGGCCT AGTGGCAACG ACTTGGACAT CTGAGCTGTC ACTGCCGAAA	60
ACAGGCCGCA AGAGAGATAA TCAATATGCA TTTCCAAGCC TTTTGGCTAT GTTTGGGTCT	120
TCTGTTTCATC TCAATTAATG CAGAATTTAT GGATGATGAT GTTGAGACGG AAGACTTTGA	180
AGAAAATTCA GAAGAAATTG ATGTTAATGA AAGTGAACCT TCCTCAGAGA TTAAATATAA	240
GACACCTCAA CCTATAGGAG AAGTATATT TGCAGAAACT TTTGATAGTG GAAGGTTGGC	300
TGGATGGGTC TTATCAAAAG CAAAGAAAGA TGACATGGAT GAGGAAATTT CAATATACGA	360
TGGAAGATGG GAAATTGAAG AGTTGAAAGA AAACCAGGTA CCTGGTGACA GAGGACTGGT	420
ATTAAATCT AGAACAAAAC TCGAG	445

## (2) INFORMATION FOR SEQ ID NO:309:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:309:

GAATTCGGCC	TTCATGGCCT	AGAAGTTCCT	TATGCTACTT	TCCTGAGCA	TCCTATGAAA	60
TACACCATG	AGAAATTCCT	TGAAATTTGC	AAGTTGTCTG	GGTTCATGTC	TAAGCTTGTT	120
CCAGCTATCC	AGAATGCCCA	CAAGAATCA	ACTGGATCTG	GAAGAGGAAA	GAAACTGATG	180
GTGTTAACTG	AACCCATTTT	GATTGAGACC	TACACAGGGC	TGATGTCATT	CATTGGAAAC	240
CGCAACAAAC	TTGGCTATTC	CCTTGCCCGT	GGGAGTATTG	GTTTTTGAGA	GTCTTTTTTG	300
TACCATAAGC	ATATCATCCA	CAGATATGTC	ACTTTGAAAA	TTCCAGTTTG	ACCCACGCTA	360
TTTTTGGACT	NAAACAATTA	ATTATTTTAA	AATGACGCTT	TATGATTTAG	AAATTTAGTA	420
TTTCCGAAAA	TTTAAAAGCT	TGATTGGACT	GATAGATACA	CACTTTAGAC	CTCATACAAG	480
AATAATCAAA	TTTCTTAAA	ACTAGAAAAT	AAATGCTGCT	GATACCTCGA	G	531

## (2) INFORMATION FOR SEQ ID NO:310:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310:

GAATTCGGCC	TTCATGGCCT	ACACTCATGC	TGCCAGTCCC	CAAAAGACTT	CATTTCATCA	60
ACATATATGT	GACCGCCTGC	TACGTGCCAG	GCGTGGGCCA	GGTCCTAGGG	ACAAAGGAGA	120
GGCCTCCGCA	CCCCACCCCA	TGACCCATAC	CTCCTCTTCC	CCACCTCCCT	GGGCCAGCCT	180
GCCTTCCTTC	TCCCTCCTCC	TCCTTCCTGG	GGGAAGGAAG	CCCCACCTTC	TGTGCGCAGT	240
CAGCTCCTAA	GCACGCTCCC	GCTTCCCCTG	GCCTCCCCAT	TTAAAAAGGG	AGGCAAAGGA	300
TGTCACCACT	GTCACTACAC	TCATGGCTTT	GCTCTGGGAA	GTCTGCAAA	TAAATGAAA	360
GTTCTCCAAC	CCGTACTCGA	G				381

## (2) INFORMATION FOR SEQ ID NO:311:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:311:

GAATTCGGCT	TCATGGCCTA	CTTTGACGCA	CCAGGCACAA	CCCAGAAAGA	CGAGATTGTG	60
GAAATCCATG	AGGAGAATGA	GGTCGCATCT	GGTACCCAGT	CAGGGGGCAC	AGAAGCAGAC	120
GCAGTTCCTG	CACAGAAAGA	GAGGCCTCCA	GCACCTTCCA	GTTTTGTGTT	CCAGGAAGAA	180
ACTAAAGAAC	AATCAAAGAT	GGAAGACACT	CTAGAGCATA	CAGATTAAGA	GGTGTCAGTG	240
GAAACTGTAT	CCATTCTGTC	AAAGACTGAG	GGGACTCAAG	AGGCTGACCA	GTATGCTGAT	300
GAGAAAACCA	AAGACGTACC	ATTTTTCGAG	GGGCTCGAG			339

## (2) INFORMATION FOR SEQ ID NO:312:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:312:

GCCTGCCTCG	AGTCTTGGAT	ACATCACACT	TGAGTCAAAT	CCTGGATACT	GCCAAAGGAA	60
CCTGAAAATC	CAGGAGACAA	CGCTAGCTAT	TCCTGTGAAC	CTCTAGAGGA	TTTGCGCCTG	120
CTCTTCAAAC	AACAACCAGG	AGGAAAGTAA	CTAAAATCAT	AAATCCCAT	GGCCTCCCT	180
TATCATATTT	TTCTCTTTAC	TGTTCTTTTA	CCCTCTTTCA	CTCTCACTGC	ACCCCTCCA	240
TGCCGCTGTA	TGACCAGTAG	CTCCCCTTAC	CAAGAGTTTC	TATGGAGAAT	GCAGCGTCCC	300
GGAAATATTG	ATGCCCCATC	GTATAGGAGT	CTTTCTAAGG	GAACCCCCAC	CTTCACTGCC	360
CACACCCATA	TGCCCACACT	CGAG				384

## (2) INFORMATION FOR SEQ ID NO:313:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 547 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:313:

GAATTCGGCC	TTCATGGCCT	AGGGGGGTGG	GCTGATGGAG	GGTAAGTAAA	ACCTCCTACT	60
GGAAGATGTT	CTCCTAAGAG	TTCCAATTCA	TTTTCTATCC	TTTGCAGAGG	CGATCGTGAT	120
TGCTGTGTTT	GAAAGGGGAC	AAACTGGCCT	GGTGGTGCCA	AATGAGGAGG	ATGATGGGGA	180
GAAAGGTGAG	GAGGATGTAT	AAGAAATGGA	TCACTAGAAA	TAAGGGGTGG	GAATGCAGCA	240
TATGGTACTG	GTAAGTGCTG	AAC TGAACAT	GCCTGAAGCA	TTGGAGGAGG	CACACTACAG	300
ACAGGGAGGT	GCTGTCCACT	GAAAACCACA	GAGCATCCTG	GGACCTGCTG	TGTACTACAA	360
GCAGGGATGT	GCTGGCCTGT	GCAGAGTGA	ATCCCATGTG	GTGCCACTGT	TGTACTGTG	420
TAAGAAACAG	GGACTGTTCC	TTGATGGAGC	TGATCATGTA	TGTCAACCAT	GACTGCATTC	480
TGCTGGGGTG	GATGAGCAGC	AGGATGTAGC	AGACGGGGAG	ATACATTCCG	AGGGTGGGAG	540
GCTCGAG						547

## (2) INFORMATION FOR SEQ ID NO:314:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:314:

GAATTCGGCC	TTCATGGCCT	AATTGTGGC	TTACCTCAAG	TTACCATTTT	TCACTCAAGT	60
CTGTTTGT	GCTTCTTCAG	AAATGTTTTT	TACAATCTCA	AGAAAAATA	TGTCCCAGAA	120
ATTGAGTTTA	CTGTTGCTTG	TATTTGGACT	CATTTGGGGA	TTGATGTTAC	TGCACTATAC	180
TTTTCAACAA	CCAAGACATC	AAAGCAGTGT	CAAGTTACGT	GTGCAAATAC	TAGACTTAAG	240
CAAAAGATAT	GTTAAAGCTC	TAGCAGAGGA	AAATAAGAAC	ACAGTGGATG	TCGAGAACGG	300
TGCTTCTATG	GCAGGATATG	CGGATCTGAA	AAGAACAATT	GCTGTCCTTC	TGGATGACAT	360
TTTGCAACGA	TTGGTGAAGC	TGGAGAACAA	AGTTGACTAT	ATTGTTGTGA	ATGGCTCAGC	420
AGCCAACACC	ACCAATGGTA	CTAGTGGGAA	TTTGGTGCCA	GTAACCACAA	ATAAAAGAAC	480
CACACTCGAG						490

## (2) INFORMATION FOR SEQ ID NO:315:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:315:

```

GAATTCGGCC AAAGAGGCCT AGGAAGTAAC AGTGTATCAT GTATGCCACT GATTCCAGGG      60
GACACTCCCC TGCTTTCCTC CAACCTCAGA ATGGAAATAG TCGTCACCCA TCTGGCTATG      120
TTCCAGGGAA GGTGTGCCA TTGCGTCCCC CTCCTCCTCC AAAGAGTCAA GCTTCAGCCA      180
AATTTACCTC CATCAGACGA GAAGACCGGG CAACCTTCGC ATTCTCACCT GAAGAACAGC      240
AAGCCAGAG AGAAAGTCAA AAGCAAAAGA GACACAAAAA TACTTTCATT TGTTTGTCTA      300
TTACTAGTTT CTCATTTTTT ATAGCACTTG CAATCATTTT AGGAATATCC TCAAAATATG      360
CTCCACTCGA G

```

(2) INFORMATION FOR SEQ ID NO:316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 448 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:316:

```

GAATTCGGCC TTCATGGCCT AATTAAATG TGGACAGATT GGAGGGGAAA GGTTCGACG      60
AAAAATCATA AGTAGAAGGA AACAGAAATGG TTAAGTACAC AGTGTAGTAG CCATTTAGGA      120
AAGTTATAAG CCATTTAAAT GCCATGTATA AAGTGTTTT GATAAGAAA AATCAAAGTG      180
TAAAGGAGAA TACAAAATTA TATGTGTACT GCGGACACAT CTGTATTGTT CTGTGTATGG      240
AAAACAGACT GGGGAGAAAT AGCTTTAAGT CCTAATAGTA ATTTCTTTT TCTCTCTTCT      300
TTTTTCTGCT TTCTCTTTT CCTGTCTCCC TCAATATTGC ATATCTTTCC CATTAAAAAG      360
TATTGTATTA TATATCTACC AACAAACAT TTGTTTCAGA TTTTTTGGTT TTGTCTTCAA      420
GGAACATTCT TCTGCATACA AACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:317:

```

GAATTCGGCC TTCATGGCCT AGAGATGGGG TTTTGCCACG TTGCCCAGGC TCATCTCCTC      60
GAACTCTTGG ACTTAAATGA TCCTCCCGTC TTGGCCTCCG AAAGTGCTGG GATTACAGGC      120
ATGAGCCACA GTGCCCAGCC TCTACCGCT TTCTGTGGTC AGAAATAGAC GCAGGACATT      180
CCATCCATAC CTTATTCTT TCCTGGCTCT TCTCCCATGT GTCCTCGTGG GTCCTGGTCA      240
CCCTCTTAGC TGCTGTGTAA TAACCCCTGT GCAGATGCAG CAGCCACGAT GTCATCAGTC      300
CCCACCCAGT GATGCATAGG GGGCTTCTTC CCCTCCCTGG GTACAGCACT ACCAATTCCT      360
GTGTATGGGC CGTGTCAAGC AGGGGCCACG TCCTGGCCCC GCTTCAGTCC CGGCTCGGGC      420
TCCTCGCCGG GGTCTCATG CCACTTCCCT CTCCCATCTC CACATCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:318:

```

GAATTCGCCT TCATGGCCTA CAGCATCGTC GGGACCAGAC TCGTCTCAGG CCAGTTGCAG      60
CCTTCTCAGC CAAACGCCGA CCAAGGAAAA CTCACTACCA TGAGAATTGC AGTGATTGTC      120
TTTTGCCTCC TAGGCATCAC CTGTGCCATA CCAGTTAAAC AGCTGATTCT GGAAGTTCTG      180
AGGAAAAGCA GCTTTACAAC AAATACCCAG ATGCTGTGGC CACATGGCTA AACCTGACC      240
CATCTCAGAA GCAGAATCTC CTAGCCCCNC AGAATGCTGT GTCCTCTGAA GAAACCAATG      300
ACTTTAAACA AGAGACCCCTT CCAAGTAAGT CCAACGAAAG CCATGACCAC ATGGATGATA      360
TGGATGATGA AGATGATGAC GACCATGTGG ACAGCCAGGA CTCCATTGAC TCGAACGACT      420
CTGATGATGT AGATGACACT GATGATTCTC ACCAGTCTGA AGAGTCTCAC CATTCTGATG      480
AATCTGATGA ACTGGTCTCG CTCGAG                                         506

```

(2) INFORMATION FOR SEQ ID NO:319:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:319:

```

GAATTCGGCC TTCATAATTT TTCTTATCTT CATTCTTTTC GGTGCCCAA TAAGCTCATG      60
TTTTCCATGG TCGGTTTAGT TTTTACTAGT CGTTGGCTAG TTTCTAATT GCATGTGAGT      120
TAGCATGTGG TGATGGCGGA GTAATGTCAT GTCTTGAGGA GAACATTGCT TGAGTTCCAA      180
ACTTAGCTTT TCTACTTCTT GGTGAGACTT TGGACAAATT ATTTTGTAGC TTGTTTCCTC      240
ACTTAAAAAA ATGGGGTTTG TACCTTTAGT TGTTCCTCACT GTTGTGAGGA CTTGAATAAT      300
AAAGTATATA GCTATAGATA AGAAAACCTG GGGGACTCGA G                                         341

```

(2) INFORMATION FOR SEQ ID NO:320:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 572 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:320:

```

GAATTCGGCC TTCATGGCCT AATTTTTTTC AAAACCTTGA AATGACATGT TAAATGCTG      60
CTTTGAAGTG GTTTTTCTTT AGCCTGTAGA AAAGAACTTT GAGTTACTGG TCAAGTAGTT      120
TTGACCATAC TGGCTTAGGA AAACAGCGCA TCAGCTGTCT GATTGCTATC ATGTAAAAAT      180
CTGTGAACGA CTTTGAGAAG TCATTGGTGG ATTATGTTGT TCAGGAATAG GAATGGAGCT      240
TTCTTCCTAT CACTTGATTT TTTTTTTTTT TTTGGAAGGG GGGAGGAGGA GGAATTATTT      300
CCNCCCTAAT AAANGGNGGN NTTAATCCTG GGGCCCNNA AGGCTGGNNN GGGTCCNGAT      360
KTGGGGGTNC NNTTTATTGG GAACTGACNG GGNTTTAATT TTCCGGTTTT TTTTCTTCT      420
TGAATGATCT TGTGTTGTAG AGTTGAATAC AGTTCTAGGG AAGTATGATC ACAAATGAA      480
TGTTGGCAGT TCCTCCTATG ATTAATATGT CAGACATGTC AAAATTCTCT CATCATGTGT      540

```

ATTTGCCGGG TTTATTCAGT CCAGGACTCG AG

572

## (2) INFORMATION FOR SEQ ID NO:321:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 342 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:321:

GAATTCGGCC TTCATGGCCT AGATAACTTT GAACAGAATG GGAGGCAGGT TTACCCTAAG	60
CAGTTCCCCA CTTGAAGTTT TCCTTAGTT TAGTGATTG AGGGGCCCAA AATACTTTCA	120
CATTTCCCCC CTTTCTTTT TAAAAATCTG TTGGAGAACG CATTTTAGAA GAAAATGAGT	180
CTCTGGCCTC AGGTTTCGTC TGATCTCTCA TGGCTAGGAT GGTTTATTC TAGATAGATA	240
GGTCCTGAGT TATTAGGAAA GCTCCTTTT AGAAGGTTGT GAAGTCTCAT GTCCTGTGAA	300
GAGAAAATAG GGGGAGGACA ACAACAAACA AAAGAACTCG AG	342

## (2) INFORMATION FOR SEQ ID NO:322:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 391 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:322:

GAATTCGGCC TTCATGCCTA CAATATTGTT TAATAATTAT TCAGAAATAT TCAAGTATAA	60
TACTTAATAA AAATTTCTGC TATGTGCAAG GCATGGTGCT AGGTACTGAG ACTATAAGGA	120
GGTAAAAGAT AGTTCCTGCC CTTAAAGACT TCTATAATT AATCAGAAAG GAGAGTATAT	180
GAAATCATA CTGAATAAAA AGTGGCTCAT AATAAATGCC AAGGAATCAA CACAAAGTCC	240
TTTCCTGCT AGGGAAAGTT TTTTGTAGGA AATGGGACAT GAATTTGGCT TTGAAGGATG	300
TGGAGGGTTT AGATAAGAGG GAGAACTGT TGTGTTCTAG GTTAGAGGAA CAACATAAAC	360
TCAAAAGAGA CTAAAGAAGA ACGGACTCGA G	391

## (2) INFORMATION FOR SEQ ID NO:323:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:323:

GAATTCGGCC TTCATGGCCT ACCCTGAGCA GTGCCTGGCC CATACTGGAT ACACAGTGTG	60
CATTTTGTGG GGA CTCAAGG AAGGAAGGTA ATATCCAGC TCAGGGTTCT CTCTGACCCT	120
GAATAGTGTT ATGGA CTCTT TGGGAAGGAT AGAAGCTTTC TTAGTTTTCT GACAGAGGCC	180
TGTAGGCTGC AAACGTTGTG TTTGTAGAAA GAGTTGTAAA GGTGTCATGA GCCTTTATTT	240
AAAAGTGTCT TTAATGTATC TTAGGCATCT TTTTCTTTC ATCTCACACT ATGGACAGTT	300
TTAAGTGCAA AAGGGGA ACT CGAG	324

## (2) INFORMATION FOR SEQ ID NO:324:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:324:

```

GAATTCGAGC TCGACTGGAT AGTTTTTCTT TTAAACTTA AAATGCTTTT TAGTTTGGCA    60
CTCCGTAGTA AAGGAGGTTT CAGAAGCCAG TAAGAGAACC TCTGCCAAT ATGAAAGAGA    120
AGATATTTCT ATCTACAAGT TATTTAGGA TCAATTATTC AATTAATATT TTATATAATA    180
GAAAGGTTTT ATTTGTTAGG ACTTTATCTT TAAGTTCCCC AAGAGTAAAA AGGTCTAGTC    240
ATTATTATAC TGTGGGAGAA TGATAGAAGA TTGATTACAT TGAAGCTCCA GAATCTCTAT    300
TTATTAAAAA GATTTAAGAT TTGACACACT CTCGAG                                336

```

## (2) INFORMATION FOR SEQ ID NO:325:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:325:

```

GAATTCGGCC GGCATGGCCT AANCTAAAAA TAAATNAAC CCAACGCATA NAANACGGGT    60
TTATCTCTCC TAAAAACANT TNAGTTTNGA CTAAATGAA ACANATCATN NNACAACNTC    120
ATTTTNAAT GAAGATTTTA CCTGGACCCT AGGTGTGCTA TTCTTCTAC TAGTGGACAC    180
TGGACATTGC AGAGGTGGAC AATTCAAAAT GAAAAAATA AACCAGAGNA GATACCNNG    240
TGCCACAGAT GGTAAAGAGG AAGCAAAGAA ATGTGCATAC ACATTCCTGG TACCTGAACA    300
AAGNATAACA GGGCCAATCT GTGTCAACAC CAAGGGGCTA GATGCAAGTA CCATTAAAGA    360
CATGATCACC AGGATGGACC TTGAAAACCN GNAGGAAGTG CATCTCGAG                                409

```

## (2) INFORMATION FOR SEQ ID NO:326:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 502 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:326:

```

GAATTCGGCC TTCATGGCCT AGGCGGCGGC AGCCGAGGGC GTACTGGCGA CCCGGAGTGA    60
TGAGCCCGCC CGAGACGATG CCGCCGTGGA GACAGCTGAG GAAGCAAAGG AGCCTGCTGA    120
AGCTGACTTC ACTGAGCTCT GCCGGGACAT GTTCTCCAAA ATGGCCACTT ACCTGACTGG    180
GGAACCTGAC GCCACCACTG AAGACTATAA GCTCCTGGAA AATATGAATA AACTCACCAG    240
CTTGAAGTAT CTTGAAATGA AAGATATTGC TATAAACATT AGTAGGAAT TAAAGGACTT    300
AAACCAAGAAA TATGCTGGAC TGCAGCCTTA TTTGGATCAG ATCAATGTCA TTGAAGAGCA    360
GGTAGCAGTT TTTGAGCAGG CAGCTTACAA GTTGGATGCA TATTCAAAAA AACTGGAANC    420
CAAGTACAAG AAGCTGGAGA AGCGATGAGA AACTTATTTC TATGGGACAG AGTCTTTTTT    480

```

TTTTAATGTG GAAGGACTCG AG

502

## (2) INFORMATION FOR SEQ ID NO:327:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 468 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:327:

GAATTCGGCC TTCATGGCCT AGAATATTCC ATATCAGTAC ATATAGCACT GCCTCACTTT	60
TTAATGGCTA TATAAAATAG TACTATAATT TTAAACCACT CACCTGATGG TGGGCTTAGT	120
AGTTATTCTG TGGCTGTAAC CAACATCACT GCCATGTGCA CTGGTACACA TACAGAAGTC	180
CACACAAGTA GGCCTGTATC TGTAAGGTAA ATACTGGTGG GATTACTGAG TGAAAGGAGA	240
CGTGAATTTT TAGATTTTTA CTATGAAAGA CAAACTGCTC TTTATGGGGA TTTTATTAAT	300
CTACAACCCC ATCAACAATG TATGAGAGCC CATTITTCAC ACACTTGCCA ACTCAGTAGG	360
TTATTAAACC TTTTGGTCTC TGCCACTTGT ATATCCCAGA TCAACTTCTA ATTCTGCTTC	420
ATATTGTTTG CTATCCTTTA GAATATTCTT GTCCACCTT GTCTCGAG	468

## (2) INFORMATION FOR SEQ ID NO:328:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:328:

GAATTCGGCC TTCATGGCCT AGGGAAAGGA AGTGACATAG TGGTATAAAA ATTTGAAATT	60
TGTGATGTGG CTTAGAAGCT TGATATATAC GGTATGATT GCAGCTGCTA CATTAGCCT	120
TTTTTCTTT CTTTTGGAG AATGAACCGC ATTAAGAAAT ACATTTTACA TCACAATTTA	180
GCAAGTATAT GTGCTAACAT ACTTCTGTTT CTACAAGGGA TGTATTGTGG TATTTTCTAT	240
TGCATTTTAC TCTAATTTAG TTCATTTAAA AAAATGCTGA TTCTAACCCA TGAAGTCGAG	300

## (2) INFORMATION FOR SEQ ID NO:329:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:329:

GAATTCGGCC TTCATGGCCT ACCACCACAC CCGGCTAATT TTTTGTATTT TTAGTAGAGA	60
CGGGATTTC AATGTTAGC CAGGATGGTC TTGATCTCCT GACCTCGTGA TCCACCCGCC	120
TCCGCCCCC AAAGTGCTGG GATTACAGGC ATGAGCCACC GTGCCTAGCC GACTCTTGAG	180
TTTTGACAAG AGGTGATATC TGGGAGATTA ATAAGTATTT AGTTTAAGAA AACATTTAGT	240
AAGCCTGTCC TGTGTTCCCA CACAAAGGGT ATAACAGCAA TATATTCCAT AAGAGTAAAG	300
CTCGAG	306



## (2) INFORMATION FOR SEQ ID NO:330:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:330:

```

GAATTCGGCC TTCATGGCCT ACATTACCAT CAGATTGACA TATTTAATTA TCAGATATCT      60
TTCTTTTGCC AAAAAGTTGT GGTGAGTTG GCCCTGGGAT TTATAAATAC ATGCACACAG      120
CACATTCTCG TCATTGTTCA CTGCAGTCTT TTAACACATC TTCTCAGCAA TATTCTTAAT      180
GTTTCCAGCG GGAAAATTGT AAATTATTTA ACCACTGAAT TAGAGGTGTG TTGTTTTTTA      240
GCTAATCAAT AGCCATTGAA TGCTTAAATG GGCTTTAAAG TAGACAAAAG TAAAAGACAG      300
CAAAGAAAAT TAATCAGTAA GATTGCCCAT ACTCCATAGA CACTTGAGCA GCTACTTTAG      360
TCATTTTGAA ATACACGCTT TATGTTTTC CTTGGACTGG CATATTCCTG TCATTTATAA      420
AAAGAATATA CATTTGTAAA TTAAAGTGT GGACATTCAT TATTGAAGGT AGAAATAGTT      480
ATAATCATCA GTGTCTAGAT ATATCTGAAG AGAGGTACTC GAG                          523

```

## (2) INFORMATION FOR SEQ ID NO:331:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 423 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:331:

```

GAATTCGGCC TTCATGGCCT AAAGTAGGCA AGGGATAATA ACCAAAGAAG NAAATTTTCAT      60
GAAGACTAGA CATCATAAAG CATAATTTTA ATAGTCACTC AACCAAGTAT TTTTATTTT      120
TTATGGATAC TCTGAATGGC AATTAAATGT GAAACCCAGT TTCTTGGGCA AGTCAAATTC      180
TGGAATCACA TCCACCTAAA TTAATATGAC TAGCTCGTAT TTTCCCCATC TTCAAGTTTC      240
ACATCCTGGT CATCAAAAAGA CTCGACAGCA AGACTTAGAA TGAAAAAGGG TACTTGTTTA      300
TATTAATATT TTTTACTTGA ACACGTGTAG CTTGCAGCAG GTTCTTGATG AATGTGCTTT      360
GTGTCCAAA TGCCTCCCCA TTGTACACAG GTGTACACCA TGCATGCACC AACACCCTC      420
GAG                          423

```

## (2) INFORMATION FOR SEQ ID NO:332:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 410 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:332:

```

GAATTCGGCC TTCATGGCCT ACAAGCCACA AACTGTGGT GAATGGAAAA GAATGTATAA      60
ACTTCGCCTC ATTTAATTTT CTTGGATTGT TGGATAACCC TAGGGTTAAG GCAGCAGCTT      120
TAGCATCTCT AAAGAAGTAT GCGTGGGGA CTTGTGGACC CAGAGGATTT TATGGCACAT      180
TTGATGTTCA TTTGGATTGT GAAGACCGCC TGGCAAAATT TATGAAGACA GAAGAAGCCA      240

```

TTATATACTC ATATGGATTT GCCACCATAG CCAGTGCTAT TCCTGCTTAC TCTAAAAGAG	300
GGGACATTGT TTTTGTAGAT AGAGCTGCCT GCTTTGCTAT TCAGAAAGGA TTACAGGCAT	360
CCCGTAGTGA CATTAAAGTTA TTTAAGCATA ATGACATGGC TGACCTCGAG	410

## (2) INFORMATION FOR SEQ ID NO:333:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:333:

GAATTCGGCC TTCATGGNCT ACCTTAGCCT CAGCTCTTTC TTCTGGGTTG TTTGTATTTT	60
CTTTTCTGTC CCAAACAGTT TCCCCACAA AAAGAACTTT ATGTCTTTCT CTGTCTTCCC	120
TCAGTCCTTC CAGTCAGCAG CCTGTGATTG GGCTTTTCCC CTCAGAAACG AACAAATCCAG	180
AACCCACTGT TTAACAACAC TGTATTTTGC CTGGGGAAGT CCCATTGCCT TCCCTGAAAA	240
CATTAAACAT TCCTCCGATC CCCAGCCTGA GTCTCTCTGT CTCTGGGCCC CATCCTGCTC	300
CACAGCAGGG CTGGTGTGTC CAGCACAGAG TGACCCTCCG ATGCCCTTTC CCACCCGCCG	360
CCNTGCCTCC CTCGAG	376

## (2) INFORMATION FOR SEQ ID NO:334:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:334:

GAATTCGGCC TTCATGGCCT ACGGGTTGTT ACATATTAT TCTTTTGA AGCCCATCAC	60
TACATCGCCA TTACGTTTCA CACTGTGTAT GTAACAAATG TTACCACTTT GTTCTTTATT	120
CCTTTTGA TCATCTTCAG TGGGGGTAAA ACAGTATCAA GCTCTAGAGC TCCCTCTGGT	180
GGTTTTGTG ACATATTGA AGATGGCAGC TTGCTTTTG AGAATTTCTG GCTCTGTCT	240
CCCTGTTTTT ATCTGTACTT TTTTCTCA TTGTGCCTCT TGCACACACA CACCCCCCCC	300
ACTCGAG	307

## (2) INFORMATION FOR SEQ ID NO:335:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:335:

GAATTCGGCC TTCATGGCCT ACATTACTCA GCTTTCCTGA ACAACCAGGC ACGACCCTCT	60
GCCTGCAGGC CAGGCACGTG CTGCTGCCCC TGGAGGCGGG TGGGGGTGCC TCCGCGCTGG	120
AGGACACGGG GTGCACTGAG GCTTCCCAT GGTGATGGGG GAATGTGGTG ATGAGGGGAT	180
GCGGTGCCCG CGGACCGCAC ACATGCCATG TGTGGACACT CAACAGGAAG CTTCGGTCAG	240

CATTTCAGCT GGAAATGCAG AGCCAGGGCC CTGGAAAGTC CCTCAGCAGC TGTGCACAGG	300
CCTGCTCACC GTGCGTGTGC GGGCAGAGCC TCCCTGGGGA GGCAGAGGCC CCGCGTTCTG	360
CACTCGAG	368

## (2) INFORMATION FOR SEQ ID NO:336:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 437 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:336:

GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TTCCTGCTCT TCTAGGTAGT	60
CACACTTCAC TAAAGTGTC TCCACCAGTG TGTGAATCC GAAGAATGAC AATTTTCTAC	120
CACTGGTGTA AAAAACAAC ATTTGAAGAC CCTTGTCAT TGTGTGTCAC AAAGCTAAAT	180
ACATGGAAAT CGTTAATATC GCTGATATTA AGTAATTTCC CCACTCTGAG TGAATACTTT	240
GATGATTGCC AACAGTGGCT AATAAAATGA CCGCTACCAC ACTCATGGGT CACTGGGGCT	300
GCGCAGGGCT CTTTGAGGTG GGTGGCTTCT TTTGGAAAGT ACTATGAACG TCTCGAAGCA	360
GTATTCTAGT GATAAGAATT CTTAACATAG CCAAGCGCCC CACGTTTGTT CCCCACGTTT	420
GTTCCCTTA TCTCGAG	437

## (2) INFORMATION FOR SEQ ID NO:337:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 430 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:337:

GAATTCGGCC TTCATGGCCT ACCAAACCCA ATTTATTTAA AAANATACTT CTATATCATT	60
ATATGTATTA CCAATTGTTT TAGCCTTATA CAGGATGCGG TGTNCTGTGC TCCTTNGTGA	120
ATGTCTGTTG CTGGTAGCTG GTTATGCTCA TGATGATGAC TGGGTTGACC CCACAGACAT	180
GCTTAACTAT GATGCGGCTT CAGGAACAAT GAGAAAATCT CAGGCAAAAT ATGGTATTTT	240
AGGGGAAAAG GATGTCAGTC CTGACTTGTC ATGTGCTGAT GAAATATCAG AATGTTATCA	300
CAAACCTGAT TCTTAACTT ATAAGATTGA TGAGTGTGAA AAGAAAAAGA GGGAAGACTA	360
TGAAAGTCAA AGCAATCCTG TTTTAGGAG ATACTTAAAT AAGATTTTAA TTGAAGCTGG	420
AAAGCTCGAG	430

## (2) INFORMATION FOR SEQ ID NO:338:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:338:

GAATTCGGCC TTCATGGCCT AGAAATAGAT TTTTCCTCAG ACTCTCATCT CACATTCCCT	60
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TTTAAGATTT CCTNGTCCTA TCCCCACCCC AGACGTTTCC ATTTTGCTTT TATTTTCTAT	120
AATAATTCCT GGGGGCCTCT ATTAAAGGCC TTTTCTTTG ACTACTTACA TCCATTATAC	180
CAGTATCTTT GTCAGTAAAA TTTTATATAT CTTTATTCT GTCATCAGGT TAAGAAACAA	240
TAATTGTATT TTTAAAGGAA AATATTTTAC GATGCTACTA AGCAGTTACT TTGTCCACTT	300
ATGCAGGATA CTCGAG	316

## (2) INFORMATION FOR SEQ ID NO:339:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:339:

GAATTCGGCC TTCATGGCCT AGCTGGCTGG CACCTGGAGA ATCCCTGAGC TGGAAAAGCA	60
GCTTGGTCTG CAGAACTGAG TCACAAGACT GAGGCACTGG GGAGCCTCAG CCCCATCTGG	120
TTGTTGNTCC CTCTGTGACC TTGAGCTTGT CTTCCACTTG GTGCCGTAGG CCCTCATTTG	180
TCCATTGAAG TTAGCACCTG TCCCTCCCGT CCTCCAGAGA GGTCCAGGAG ATAAGCATTAA	240
GAAGACTCAC TGTGTTTAT TGAGTGCTTA CTGTGCAGGT ACTGCTGTAG TTTGTGCAA	300
CTCGAG	306

## (2) INFORMATION FOR SEQ ID NO:340:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 580 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:340:

CAAACTTTTG AGTNNNACAG TTAAGATATT ATGTGAAGCT CAGAATCATG TTTCAGACCA	60
TTGAAATTAC TGGTTAAAAT ACAATAGCT GAAGACATGA TGTAAGAT TAAGTACTTG	120
GTTTTGTAAC ATATTACCA ATTAAAGTCA CAAAATATTT CTCATTATTT ATTCATGCAG	180
GTAAGTGAAG AAAAGATAGT GCAGAAATCA ACTTTAAATA AAAAATTATT CCTCCCCTTC	240
CTCCCACTCC CCTATACTCT ACAAATGTT TTCCCTGGGA CTAGGCCTTG AAAAGGCCAC	300
TACATATTAG TGTGACATGC ATTACTGTCT GCAATTAAAA AAGCTAACCT TGTGGTGATT	360
GTAATTACAT TATAAAAATG TCCACATGCA TAAATCTAAA AAAGTTGAA AACCTACAGT	420
AAATCTACAA TATAGTGTGTT ACATTTGACC ACTGGTTTGT GTTATGTAGA AGTCATAGAT	480
TTGGTAAAGC ATTGTAACAA TTTAGGAAGG CATCTAAATC TTTAAGTTCT GGACAAATTT	540
TATGTTTTAA TCTACAAAAT TGCATGAAGG CTAACTCGAG	580

## (2) INFORMATION FOR SEQ ID NO:341:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 433 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:341:

GAATTCAGAN TTNTGCTATG GTAGCACCAG ATGTCCAAAT TGAAGATGGG AAAGGAACCC	60
TCCTAATATC TTCCGAAGAG GGAGAGACGG AAGCTACTAA NTCACAAGAA GTTNTTCAGA	120
ATTTGGAATT AGAANTGGCA NCCGGCTTCA AGCAGATGAC TTCNTCCAGG ACTATACTTT	180
ATTGATCAAC ATCCTTCATA GTGAAGACCT AGGAAAGGAC GTTGAATTG AAGTTGTTGG	240
TGATGCCCGG GAAAAAGTGG GGCCCAACA AGCTGAAGAT GCTGCCAAAA GCATAACCAA	300
TGGCAGTGAT GATGGAGCTC AGCCCTCCAC CTCCACAGCT CAAGAGCAAG ATGACGTTCT	360
CATAGTTGAT TCGGATGAAG AAGATTCTTC AAATAATGCC GACGTCAGTG AAGAAGAGGG	420
AAGCCAGCTC GAG	433

## (2) INFORMATION FOR SEQ ID NO:342:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 301 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:342:

GAATTCGGCC TTCATGGCCT AAAACTCTAA TAGTCTCTCT TCAGCGGAGC CACTGAAGGA	60
AGATAAGCCT GTCAGTGGTC CTAGGAACAA GACTGAAAAT GGACTGACTC CAAAGAAAAA	120
AATTCAGGTG AATTCAAAC CTTCAATTCA GCCCAAGCCT TTATGCTTC CAGCAGCACC	180
CAAGACTCAA ACAAACCTCA GTGTTCCAGC AAAAACCATC ATTATTCAGA CAGTACCAAC	240
GCTTATGCCA TTGGCAAAGC AGCAACCAAT TATCAGTTTA CAACCTGCAC CCAAACCTGA	300
G	301

## (2) INFORMATION FOR SEQ ID NO:343:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 385 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:343:

GATTCAGATG GAGATGCCAA GCAGGCCCTT AGGTGAAGGA GTCTGGAGTC TGAAAGCATT	60
TGGGATGGGG ATATAGACTT GAGAGCCATC AGCTTATAAA TAGGACTTGG TCAAGAATGG	120
GTGGCCTCCA TCCTAGATGG ATATAAATAA GAAATAAATA TCAATTTTTC TTCTTATAAC	180
ATTCCTAGGT TTTCATTTT ATGACTTTAA GAAAAATATG AATGACAAAA ATAAACATA	240
AAATCAAATA TATCCGTATT GCCCTTTGGG GGACACCATC TCTTGCTCAC TTTACACAGT	300
AAGTGCCATT TCCTTCACCT CCATGGAAAA CATTCGTAA ATTACTAAGT TGAATAACTT	360
AAAATATAGG ACGGGACATC TCGAG	385

## (2) INFORMATION FOR SEQ ID NO:344:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 299 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:344:

GCAGAAACCT TCAGGGAAAC CCCATGCTAG CGGCAACTGC ACCACACTTT GAGGAGAGCT	60
GGGGGCAGAG ATGTCGTGCA CTCAGGAAAA ATACAGGGAA TCAAAAAGCT CTAGACAGTG	120
ATGCTGAGAG TTCCAAAAGT CAAGCAGAAG AAAAAATCCT AGGTCAGACT TATGCAGTTC	180
CCTATGAAGA CGATCATTAT GCAAAAGACC CAGACATTGA AGCACCCAGC AACCAGAAGT	240
CAAGTGAAAC GAATGAAAAG CCAACGACAG CTCTTGCCAA CACCTGTGGA GAGCTCGAG	299

## (2) INFORMATION FOR SEQ ID NO:345:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 304 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:345:

GCATTGGTT CTTTTATAT CTCTATTTC TCTCACTATA TTCCTGTTTT TCTTTTAATG	60
CTTGACATC ATTAACTCG CTGTTATCCT TGTCTGTGAG TCATCTGGTC ATTTCTGTGT	120
GTTTTATTA ACTGATTATT CTCCTGTGCC TGGCCACATT TCTGTGCTTT TNGGCGTTTC	180
AGTAACTTCT GATTGGATGT TGGGTATTAT AAAGATTATA TTATTGAGTG TCTGGATTTG	240
GGGTGGTAGT TACTTGTGGA TCAGTATGAT CCCTTTGAGG CCTATTTTGA AGCTTCAGCT	300
CGAG	304

## (2) INFORMATION FOR SEQ ID NO:346:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 291 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:346:

GAATCGGCC TTCATGGCCT AGATTACAAC ACGTGTGCCA CCACACCTGG CTAATTTTTC	60
TATTTTGTAGT AGAGACGAGG TTTCACCATG TTGACCAGGT TGGTGGTCTT GAATTCCTGG	120
CCTCCAGCCT GGTGACAGAG CGAGACTCCA TTTCAAAAAA AAAAAACAAA CTTCATGCTG	180
AGAAGTCTGA AGAAAAAAA GATTTTAAAG AGGAAATGT GTAAGAAAAA TACTTCAGCT	240
TCTGTACAA AATCAAAATA GAAAAAACA CAAAATTGGT GTTTCCTCGA G	291

## (2) INFORMATION FOR SEQ ID NO:347:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 282 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:347:

GTAACTTTAG CTGTACCTTG CAAACCAGAA CATATGGTCA CCCTACCCTC CGGTCACTTT	60
TTCTTCTTTG TTTCATTCT TTTAATTTT TTCCCTTTA AACACACAGC ATTATCTTTC	120
CCTGAGCACC ATTGTCTTTG CAAATGCTCT TGCAATCGGG ATATTTTGA CCTGGCAACA	180
TGCATATTCA GTCTGAACAG TCTCTCTGAA CCTACCCCAA AACCTGGTTT TAGCTTCCAG	240

GCAGAAGACT CTGTTCCCTG GCTTGCAACC CCCAACTCG AG

282

## (2) INFORMATION FOR SEQ ID NO:348:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 342 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:348:

GAATTCGGCC	TTCATGGCCT	ATATCAATGC	AATTTTAAAT	TTTGTAAAT	ATCAACAGCA	60
AAAGCCTAGT	GCATTGGGAG	ATGTGCAACC	TCCTGAAAA	TCTTTTCTGT	TTCTGGAGTA	120
CTTCAGGGGT	GGCCTCTGGC	CCCAGAGCCT	TTGCCACAGT	GCTCCCACCA	GCCCCACCT	180
CATCCGTCCTG	TTGCAGAGC	CTCATCTACA	GGTCCCCACG	CTGCCTTCTT	TACTCACTCT	240
GCGCTTGGCC	GTTTTGTTAT	TTGGCTTAGT	CTACATTGGG	CGGAAGTCTG	TGTGCACAGA	300
GTGGGTGTTT	CTTCGAGCCC	CTTCACTCA	GAGGGCCACA	CG		342

## (2) INFORMATION FOR SEQ ID NO:349:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 442 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:349:

GAATTCGGCC	TCATGGCCTA	CAAAGAGCTG	GGATTACTGG	TGTGAGCCAC	CGTGCCCGGC	60
CTGGACATCT	GGTTTTAACT	AGATGGAAGG	GAAGAACATT	ATGAATCTTT	AAAATACGGC	120
TGTGTCCATT	TTTCTCTCTT	CTTAACATGC	AGCATAGGTG	ACAAGCTTTT	CTGTCACTAT	180
CATGGAGCAT	TCTGAATCAT	GACATTTTGT	TTTGAGAGTT	CATTCTTGAA	TTTTCAGTTC	240
AAAATATTGT	TTGAATATT	ATTCCACATT	CAAAGATTAT	ATAAGGTCCT	GTGCTTTTGA	300
ATCTTTTTC	AAAAATTAT	TTCTGCCTGC	TTAAAAAATA	TACTTTTATT	TCCCCACAGA	360
GAGTTCAGGA	CTTCAGATTA	GTTTGTGTTT	AGCTCACTTA	ACTGGATAGA	CAATTTTGCG	420
TTTTGCAACA	CCATAGCTCG	AG				442

## (2) INFORMATION FOR SEQ ID NO:350:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 314 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:350:

GAATTCGGCC	AAAGAGGCCT	AAAAAATGA	AATTCCTTAT	CTTCGCATT	TTCGGTGGTG	60
TTACCTTTT	ATCCCTGTGC	TCTGGGAAAG	CTATATGCAA	GAATGGCATC	TCTAAGAGGA	120
CTTTTGAAGA	AATAAAGAA	GAAATAGCCA	GCTGTGGAGA	TGTTGCTAAA	GCAATCATCA	180
ACCTAGCTGT	TTATGGTAAA	GCCCAGAACA	GATCCTATGA	GCGATTGGCA	CTTCTGGTTG	240
ATACTGTTGG	ACCCAGACTG	AGTGGCTCCA	AGAACCTAGA	AAAAGCCATC	CRAATTATGT	300

ACCAAAACCT CGAG

314

## (2) INFORMATION FOR SEQ ID NO:351:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 301 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:351:

GAATTCGGCC AAAGAGGCCT AGCTACCAGA GTGTGAGAGA CCATTGTCTC GTTGGCTGGC	60
GCTCACGGAC ATGCAGTCAC GGTAGCGGGA GCAATCACAA AACTGTAATT TACTTACCAA	120
ATCTCTTCCT TTCCGTAGCC TCGCTGCCT GACTTAGAGA AAGAAAAGCA ATAATTTTAC	180
AGGCATTTTG AGGTGTCTCT TTGGGTCTT TCTGTTTGAA AGGATATTG TCGAAAAAAA	240
GAGCAAAACC GTTTAAATA AACTCCCCCT GGAAAAAAC CCAAACACT TGCATCTCGA	300
G	301

## (2) INFORMATION FOR SEQ ID NO:352:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 443 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:352:

GAATTCGGCC AAAGAGGCCT AGCAAATACA CATTAAATAG AATGCCTAGA AGAGGACTGA	60
TTCTTCACAC CCGGACCCAC TGGTTGCTGT TGGGCCTTGC TTTGCTCTGC AGTTTGGTAT	120
TATTTATGTA CCTCTGGAA TGTGCCCCC AGACTGATGG AAATGCATCT CTTCTGGTG	180
TTGTTGGGGA AAATTATGGT AAAGAGTATT ATCAAGCCCT CCTACAGGAA CAAGAAGAAC	240
ATTATCAGAC CAGGGCAACC AGTCTGAAAC GCCAAATG CCAACTAAAA CAAGAATTAC	300
AAGAAATGAG TGAGAAGATG CCGTCACTGC AAGAAAGAAG GAATGTAGGG GCTAATGGCA	360
TAGGCTATCA GAGCAACAAA GAGCAAGCAC CTAGTGATCT TTTAGAGTTT CTTCAATCCC	420
AAATTGACAA AGCTGAGCTC GAG	443

## (2) INFORMATION FOR SEQ ID NO:353:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 335 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:353:

GAATTCGGCC AAAGAGGCCT ATAGGNTCT TTGGCCGGCC AAAGAGGCCT AAAAAATCT	60
CAGCTATGGT TCATTATTAC TAGCTCAGCT TTTAATCTT TAAATGGTT GAATTATTCT	120
CTATGTCAGT TATTTTATT GACCAATTTT GGAATATTTT TGTTCAATTA TCAGGGAGTA	180
TGCGGTTAAT GAAGTTGTGG CAGGGATAAA AGAATACTTC AACGTAATGT TGGGTACCCA	240
GCTACTCTAT AAATTTGAGA GACCACAGTA TGCTGAAATT CTTGCAGATC ATCCCGATGC	300



ACCCATGTCC CAGGTGTATG GAGCGCCAAC TCGAG

335

## (2) INFORMATION FOR SEQ ID NO:354:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:354:

GAATTCGGCC AAAGAGGCCT ACAGAGATTA TATTGGGGTT NCCATTTTGT GAAGCCANAG	60
ACATNTGGTC ATTGGGATGT GNGATTGCAG AATTATTTCT TGGANGCCCG NTNTACCCAG	120
GAGCCTNGGA GTATGCTCAG ATTCCGANACA TTTCTCAGAN TCAAGNTTTN CCAGGAGNAC	180
AGTTGTTANA TNTGGGTACT AAATCCACAA GATTTTITTTG ACANAGAAAC AGATATGTCT	240
CNTTCTGGTT GGAGATTAAA GACACCGGAA GAGCATGNGG CAGAGACTGG AATGNAGTNT	300
TAAGAAGCCG GACTCGAG	318

## (2) INFORMATION FOR SEQ ID NO:355:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 435 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:355:

GAATTCGGCC AAAGAGGCCT AGTGGGAATT TTAAATACAA GATCCTGTTG AAAATATTGA	60
TATTCAAAGA AACAAACAGC TTTGGATCCA TAGCCACAAT TTAGGTTTTC CTAGATTAAA	120
ATCAGAAAGTG ATTTTATTGT TGAAGATAC ATTAATTCTT TGAAGTCAGA ATAAGAGGCT	180
TGACAATTTA ATTTCTAATT AAGTGACTGA ATAGACAAAG GATCAAATAC AACAGTAGT	240
GCAGGAAGAA AATAAATTGG AAGAAATAAT TGTTCAACCA GTAGTAATAA TTAAGACCAC	300
CATTTTAAAA TTTTCTATAC ACAAAGAATG AGAAAAATATT GTTATTATTA TTATACTTCT	360
TTCTTCTTCA GTATTAGTGG ACCCACATTA TCTCCTGTCA ATTCATTGTG TTTATNATGT	420
GAACCATCTC TCGAG	435

## (2) INFORMATION FOR SEQ ID NO:356:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 158 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:356:

GAATTCGGCC AAAGAGGCCT ACAGGCTCAC ATTGACTACA CACGTTTATA CCAGGCGCCA	60
TGTTCTTTGC CGAAACTCCC GCTCAGAGCC TGGATGATCT GCCCCTCACC TCTGCCCTCG	120
TTCCCATCCA CTCTCCCTC CTTGCTCTGT TCCTCGAG	158

## (2) INFORMATION FOR SEQ ID NO:357:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 303 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:357:

GAATTCGGCC	TTCAGGCCT	ACTCTTCTG	GCATATTATT	TTCCTGAATT	GCTGCCTCTG	60
TTGTTCAAAC	CATCCCGGAT	TAATGACAAA	ACACTATCTT	ATTCAAACCA	AGAATTATCT	120
ACAACCCCTCC	TTCTCAACTA	GTTTNNGCAA	GATCATTTCA	GTTTTTCTTT	TTGTGCTACA	180
TCCTGGATTA	ATTCTTCAGT	TTNGTCTTCT	CTGGAATCAC	TACCTAAGGC	TTATTCCATG	240
TTTCAAGTTT	TTTGTTTTTT	GTTTTTTTTT	ACTTTGATGA	GTATGTTTAC	CAACGCTCTC	300
GAG						303

(2) INFORMATION FOR SEQ ID NO:358:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 493 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:358:

GAATTCGGCC	TTCATGGCCT	ACAAAGTGTT	GGAATTACAG	GCGTGAACCTA	CCGTGCCCAG	60
CCTTTTTTTT	CATAGCAGTT	TTATTAAGTT	GTATTTGCCA	TACCACCCAA	TGTATCCATT	120
TAAGCACCTG	ATTCAGTGGT	TTTTCATGTA	CTCATGGAGT	TATGCAGCCA	CAATCTTAGC	180
GCATTTTCAT	TACCCAGAA	AGAACTGTA	CCCATTATGC	ACCCCGTTCC	CNTCNTCCGG	240
TCNTGGCAAC	CACGAGTGTA	CTGTCTGTCT	TCATGGATT	GCCTATTCTC	GACGTTTCAT	300
TGGGATGAAA	TCACACAGTG	TATGGCTTCC	ACACTTTACT	GTGCTGTTGT	CAAGGTTTAT	360
CTATGTGTTG	GGTGCAGCCA	CCCCTTGGTA	TCCACAGGGA	TTGGACCCAG	GAGCCTGCAC	420
CGATCCCCTG	CAGGGATGCC	TGTGTCCAC	AGTGCCCCCT	GCAAACTCA	CTGATATGAA	480
GAGTCGGCTC	GAG					493

(2) INFORMATION FOR SEQ ID NO:359:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 420 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:359:

GAATTCGGCC	TTCATGGCCT	AGTTAACATG	ACACAAAATC	TTTACCTGCA	GTTCTAATAT	60
TTTGCAAGGC	TGAAGTCCAT	ATTTACAAC	GTCTTAGATC	ATCTCAATCT	GATTATTTAA	120
CTATTCTCTC	TAAGTCTAG	TCCAGCCCC	AAAAGTGCAT	TTCTCTGCTC	CTCCAAAGCT	180
TAGTGGCTTA	TTGAAGTCCA	TATTTGCATT	GTGACAGAGC	CAACTCCCAA	GAATGGATTG	240
CCACTCAGTG	TAATGCAATA	GGAGCACTTT	AATTTTATCT	CCATTTTCTG	GACCCAGTGC	300
ATCATTCTAG	CCCTTTTTTC	TTGGAAATGAA	GTCTGGCTGA	GAATGATGAT	CCATTAGTAA	360
GAATTACTTA	ATAAATCAAC	TCTTGTTTAT	GAGTGGCAGA	AAACTAAAGC	CAGGCTCGAG	420

## (2) INFORMATION FOR SEQ ID NO:360:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:360:

GAATTCGGCC TTCATGGCCT AATGTCACCA CTGTGGAAAA CCATATAGGT CGAAGGCTGG	60
ACTTGCATAT CACCTGAGGT CAGAGCATGG GCCTATATCC TTCTTTCCAG AGTCAGGACA	120
GCCAGAGTGC TTAAAGGAGA TGAACCTAGA GTCAAAGAGT GGGGGCCGAG TTCAGAGACG	180
TTCTGCCAAG ATAGCTGTAT ACCACCTACA GGAGCTGGCC TCTGCTGAAC TGGCCAAGGA	240
ATGGCCCAAG AGGAAGGTGC TTCAGGACCT GGTACCTGAT GATCGAAAGT TAAATATAC	300
TCGTCCAGGG CTCCTACCT TCAGCCAGGA AGTACTACAT AAATGGAAGA CTCGAG	356

## (2) INFORMATION FOR SEQ ID NO:361:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:361:

GAATTCGGCC TTCATGGCCT ACATGATGAA ATGTTGGCTA AAAGAGTCAC CCTAATATTA	60
ATAAAATGTT TTATTCCTCA TGTGACTAAA TCAGTGTGCA TGCAAGAAAA AGAAAGAAAA	120
AATGCTTAGA TTCCTTTTTT AAATTATCTC CAGAATTTCT AATTTTATA AATTAAGGAC	180
CAACAAATCC CATTTTGTTC TCACGTTTGA CATTTGTTCC TTGACTTAA ATAACCTCTC	240
CACTCTTTAT TTTCTATTT GTGGTGATTT GAATAATTTT TCAGAAAATA TGTACTTTCT	300
GATAAATGTT AGTGTGTCAG TAATGAAAAC TGCTCTATGG TGCTCCCCTC GAG	353

## (2) INFORMATION FOR SEQ ID NO:362:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:362:

GAATTCGGCC TTCATGGCCT ACGAACTACT CTAAGTAATG GGCCAAGTCA TGAGCTGCAC	60
AAAGGCCCCC AAGACCCAGA CGGGTTTAAT GTTAAGCAAA ATGCCGCCTG GTCTCAGGTA	120
GACACTCAGC CACCGCTAGC CCCAGTCAAC TGTCCCATGG GAAGGCAGAA GGCCCGGTGT	180
TGCCAGGTCT TAAGTTTTC AAGAGAAATC CTTAAACGAT GGTGTTTCAC TATAATGGAT	240
TCATTTTAT GTTTTATAAA TCTCTATGTT CATGTAAGT TATTAGTACT TTTATGTGAT	300
AAAATCTTTT TTTTAAACAT TGGTAATTCA AAAACACAAC ACCCACATAC AGTGAGGACC	360
AAACAAAACC CGTCTGCAAG CAGGCTCTCT CCGAG	395

## (2) INFORMATION FOR SEQ ID NO:363:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 281 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:363:

```
GAATTCGGCC AAAGAGGCCT ACAAAGGACA GCCCTGTCTG CACACTGAGT TACTGTGGAT    60
TTTTAAGAAA CTTCGCTAAA GAATTTAGGC ATTTCTGATT CAGTTAAAGG ATTGCCAATT    120
CATCAGTCCC TGAAACTAGA GCAATCTCAA CAGGACAAGA AAAGAAAAATG GGCTTTTAA    180
GTCCAATATA TGTCTTTTC TTCTGTTTG GAGTTAGAGT ATACTGCCAA TATGAAGCTT    240
ACCGATGGGA TGACGATTAT GACCAAGAGC AAAATGTCGA G                281
```

(2) INFORMATION FOR SEQ ID NO:364:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 357 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:364:

```
GAATTCGGCC TTCATGGCCT AGTGCCACTG CACTCCAGCC TGGTGACAGA GTGAGNCTCC    60
GTCTCAAAAA AAAAAAAAAA AACTCAGCTT CTTCAAGAG ATAAATTTGG GGGAGGAGCC    120
CAGGGCCACA TACCAAGCTT TGGGACATGG TGCCTCATGC TCTCTGGGAT TGCAGACCAT    180
CCAGGTCTGT CTTCGCCCCT GTTAGTGAC ATATATCCAC TCACATGTCT TCCCTCAGGC    240
TATCGGGCAG GGGGACTTCA CCAGGGGGTT TATGGATAGG CTTCAAGAGG GTCTGTGAGC    300
CCCCAGAAAT TGTGTGTGAG ACTGAGTATG TGTTCTTTT TCCAGGAAAT TCTCGAG      357
```

(2) INFORMATION FOR SEQ ID NO:365:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 325 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:365:

```
GAATTCGGCC TTCATGGCCT ATTACAATAT GCTTAAAGCT CAAAATGATC GAGAAACACA    60
AAGTTTGGAT GTCATATTTA CTGAAAGACA AGCGAAAGAA AAACAAATCA GAAGTGTCGA    120
AGAAGAAATT GAACAGGAAA AACAGCAAC AGATGACATT ATCAAAAATA TGTCTTTTGA    180
AAACCAAGTC AAGTACCTAG AGATGAAAC CACAAATGAG AAAGTGTAC AGGAATTAGA    240
TACACTTCAA CAACAATTGG ATTCACAGAA CATGAAAAAA GAGAGCCTGG AAGCAGAAAT    300
AGCTCACTCC CAGGTGAAAC TCGAG                325
```

(2) INFORMATION FOR SEQ ID NO:366:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 549 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:366:

GAATTCGGCC	TTCATGGCCT	AGTGAATTGA	GTTTGTAAA	CCTCCTTAGC	ATATCACACA	60
ACACTAATTT	TCCACTCTCA	ATATGTGGCT	GTAGAGTGT	TAATGTTTAC	TTTCATATCG	120
CTTTTCCATA	GTAGTGCAAG	ACCTCAGTTT	AGCTTGTTTA	CATTATTTCG	AGATTTACTT	180
ACAGTGTACT	ATTTATTTCT	GTTTTAAATA	GTGTTTGCAA	TAGGAGAAAA	TCATATGATC	240
TTAAGCATAT	ACACCAAAGG	TAAGAAAGGA	AGCCACTATT	GTATCTTTT	GATGAATTCC	300
AGATGAGCTG	GGATCAAATT	GAATGCTTA	GGCAGAAATT	TAAGAGACAA	GTAGAAGTGG	360
TGCAGAAAGA	CATTGTGACT	GCAATGCTCT	ATTTACAGCT	ACTGCCCAGA	GGAGAACACT	420
CCCAACATGA	CAAAGAGTTC	ATCAGCTTGA	ATGTTAACTT	TTGAAAACAA	TTAATTGAGC	480
CCTGCACCC	GGCCAATCTA	GTGAATTGAG	TTTTGTAAAC	CTCCTTAGCA	TATCACACAA	540
CTACTCGAG						549

(2) INFORMATION FOR SEQ ID NO:367:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 481 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:367:

GAATTCGGCC	TTCATGGCCT	AGGAGGCGGA	GGTTCAGTG	AGCCGAGATC	ACGCCATTGC	60
ACTCCAGCCT	GGGCGACAAC	AGCAAGACTC	CATCTCAAAA	AAAAAAAGTG	AGATCCTGCC	120
GATGGGCCCT	TCCTGTCCAC	CTGTCAGGAA	AACCTGCAAA	AGGTTCTTGT	CGCACCATT	180
GAGCCAGTTT	TTCCCAAATG	ACACCCATAC	CTGATTTTCC	TTGTTCTTCT	AAGACAGTTT	240
TAATTAGGAT	AATCTCATAA	GTGCTACATT	TTCAAGTGAAT	TTTTCAATAT	AGTGGCCCAT	300
GTTCTTTCTT	TTTTTTTAAA	GTCTTTTCC	TCTGGTAGCA	CATGTGATTT	AATGCTTGCT	360
TTCTTGAAAT	GTAGAAATAA	AAGGAAATCA	CAAGTATTTT	CCAACAAAGT	GGAAGTGGG	420
CCGAAGGGTG	CAGAAAAAAA	CTATAGAAAT	TAGTTAAAAA	TTAGGAAGGG	GCAGTCTCGA	480
G						481

(2) INFORMATION FOR SEQ ID NO:368:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 285 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:368:

GAATTCGGCC	TTCATGGCCT	ACCAACTCAG	AAGGGAATGG	AATGTGGAAA	AAAAGAAAGA	60
AAACCTGAGT	AACTTTTCCT	AAAAAAGTCT	AGCTGTCTC	AGTTTGTGGC	ACCAAATGGG	120
GAGCAGGGAA	TGTTCCAGTC	GCAACTGACT	AATTAGCCCA	ACCCTNATTT	ATTGATAATA	180
ATAATGATAA	ATAATAATGC	TAGCTAACAC	TTACTGAGCA	AATACTAGGT	ATTATGTGAA	240
ATCATTTTCT	TGTATTAAT	CACTTAATCT	ACACAGCAAC	TCGAG		285

(2) INFORMATION FOR SEQ ID NO:369:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 472 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:369:

```
GAATTGGCCT TCATGGCCTA NGTGTGGATA GTGGAGGCAT TGGTAGCCAG AACATGTCAC    60
TTTATGACAG CATATGGACA GCAATATGGA AGCCCAGCAT GGTGGTAAA AAATGGGGCA    120
GCCTAAGGTC AATGACTTTT GGCTGAGTCT GTGAAGATCT CAAAGCTTGG TGGTTTTTAG    180
CATAGCCTTT ATACCATACT TAACTCCGGG TAAGGACCAG GACCACTGTA GCGACCAATT    240
GATTGACAGA GTAAAGTATG TGGGTTTTTT TTTCCCCCA ACTGGGCTGA TTCTCTTAGA    300
ATAAAAATTG TATACCATTA TATTATGTTA ACTTGATCAC AAAGAACAAA ATGTTATTTA    360
TTAATAATAT AGCATGTGCA TCTGTTTGAT GAATTTCTT GATTTAATGC TTGTTTAGAT    420
TCAGTAAGCC ATTCTCAGGA ACTATAATAA ATGCTTCTTC CAACTTCTCG AG          472
```

(2) INFORMATION FOR SEQ ID NO:370:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 307 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:370:

```
GAATTCGGCC TTCATGGCCT ACGAGTGCTT GCTGGAATCG TTTACCCTNG TTAATTTTAA    60
TCATNTCCTC TTTATGAGCA TGATATGGCT TCAGCTGTTC CACTTTGATC CAGGCATGAT    120
CTTCTGTTCC AAAAAATTTC ACAAGAAGC ATTTCTTTCC GCGAGGTTTC TTCAAGTCCT    180
TTGGTGGATT AACAATCTTT CCTGGCCAAG GAGGATATCG GCCGAGTTTC CCCACACCA    240
AGTCGCCGAG CCGCAGACTC ACAGCCGCCA TCTTACCACC CAACCACCGC CGACGCACGG    300
GCCGCCG                                307
```

(2) INFORMATION FOR SEQ ID NO:371:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 414 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:371:

```
GAATTCGGCC TTCATGGCCT ACAACGATCT TGTCTTCTTC TATCAGGTTT GCGAAGGTGT    60
TGCGAAGGCC AGCCATGCCT CCCACACAGC TGCCCAGGCT GGGCTTCCTG ACAAGCTTGT    120
GGCTCGTGGC AAGGAGGTCT CAGACTTGAT CGCAGTGA AAACCCATCA AGCCTGTCAA    180
GGATTGCTA AAGAAGAACC AAATGGAAAA TTGCCAGACA TTAGTGGATA AGTTTATGAA    240
ACTGGATTGG GAAGATCCTA ACCTGGACTT GAACGTTTTT ATGAGCCAGG AAGTGCTGCC    300
TGCTGCCACC AGCATCCTCT GAGAGTCCTT CCAGTGTCCT CCCAGCCTC CTGAGACTCC    360
GGTGGGCTGC CATGCCCTCT TTGTTTCCTT ATCTCCCTCA GACGCAAACT CGAG          414
```

(2) INFORMATION FOR SEQ ID NO:372:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 376 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:372:

```
GAATTCGGCC AAAGAGGCCT ACTGGATGGC ATCTACTTCG TATGACTATT GCAGAGTGCC      60
CATGGAAGAC GGGGATAAGC GCTGTAAGCT TCTGCTGGGG ATAGGAATTC TGGTGCTCCT      120
GANCATCGTG ATTCTGGGGG TGCCCTTGAT TATTTTCACC ATCAAGGCCA ACANCGAGGC      180
CTGCCGGGAC GGCCTTCGGG CANTGATGGA GTGTCGCAAT GTCACCCATT TCCTGCAACA      240
AGAGCTGACC GAGGCCCAAG AGGGTTTCA GGATGTGGAG GCCCAGGCCG CCACCTGCAA      300
CCACACTGTG ATGGCCCNAA TGGCTTCCCN GGATGCAGAG GAGGCCCAAG GACAAAAGNA      360
AGTGAGGNAG CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:373:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 345 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:373:

```
GAATTCGGCC AAAGAGGTCC TGTAAGTATG ACTATTTAAT TTATTTCTTT TCACAATATA      60
AAAAGCACAT GCGATATTTT GAAAGACTAT TAAAGGTGGG GACAAGAGGT TATTTAAATC      120
TATGTTTGA TGCAACTTTT ATGGCTTAA CTACAAAGAA TTATCCTTTT TATATATTAA      180
ATGATTGTAT AGTTCTTTTA ATACTGTTT TTGATACAAG TGTGAAATNC TTAAAGAAAA      240
TGGCAACAT CACTAACAC CATTACAATT CTAATAGCTA ACTTTCTGA GCCATTACTT      300
GGAACCATGC ACTGTTTAA ATGCCTCACT TGGCCAATGC TCGAG
```

(2) INFORMATION FOR SEQ ID NO:374:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 507 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:374:

```
GAATTCGGCC AAAGAGGCCT AAAATGCGGA GTTATAATCC AGAAGGGGAG TCTTCAGGGA      60
GATACCGAGA AGTAAGGGAT GAAGATGACG ATTGGTCCTC TGATGAATTC TGAAGATAAT      120
CTCCTAAATC ACTGACGTTG AGATGTCATC ATCTTACATC AGACTTTCTA ACTAGTATCA      180
AGATCAGTGT CAGATATTGT TGAGGGAAGT AATTTTATAA AGTTACACAA AGGTAGTTAT      240
AAAAAAGCC CAGTTTGTCT TTCAGAAGGT GACTTTTCATG TGCTTGAAAA GTTTAATATT      300
TGAATATTGT GTTTAACCAC ATGGTATTAA AATTTTGCAA TATATTGTGT ATTGGTCTGA      360
TATTTTAGTA TATAGTAGAA CATACTTTT TTTTCTTAA GCCAAATGAA AAGAGGTAAC      420
TTTGCTTTT TCCTTTTCT TACCTATCAA ATAGCATTTA TTACATGTCT TTCAGTGAAA      480
TACTTAGTTG TTCCAGGCAC GCTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:375:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:375:

```

GGAACGAATA GAAGTGTGTTG TATCTGTGGG TTNGACACAC TACTGAATCA CAAAGTCTTT      60
GGAATAATTC TCAAAAGCCA TCACTTTTAG CCCACTTTCT CATTCAATTAA TGCTCTATTC      120
TTTTCTAGC ATGTCTAGCA GAATTCTCTT GAATCTTGC AGTGAATTGG TGCTCCTTAA      180
ATACCTGCTA TTTTGAATA GTTTTGACTT AAATACATT TCCTTTTCTC CCAGTTGCAA      240
AATGTCAGGG CTGACAACTG AAAGGGCTTC TGAAGATTGT CAGTGTTCCTC ATATTCAGAT      300
AGGTAGCAAA GAATCTGACA CATTGGTAT AATAAACCCA CTCGAG                        346

```

## (2) INFORMATION FOR SEQ ID NO:376:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:376:

```

GAATTCGGCC TTCATGGCCT AGGATGAATG ACCTTAAAGA TCGAACATGA ATAAGAGACA      60
TCATTTACCC TCAAAGAAAC TAGAGTCTGA TTGGGCAGGG AGGAAAAGGT ATTAAAATTA      120
TGTCTTTCTG CATGTGTGCG AATTGAAGTT TGTTTTTTGT TGTTAAGAGT CTTATTATTA      180
GGATAATGAC ACTGTTTTTT CTTTATTAAG TTAATTGTGT GGCAGTTAAG ATGATTCTGG      240
TGGCTCTTAA CATTTTTTTT TTCTCCAGTC GGGAACATGC CCTGTGTGCC GCCGTCATTT      300
CCCACCTGCG GTTATTGAAG CATCTGCAGC TCCTTCCTCT GAGCCTGATC CTGATGCCCC      360
ACGGTCTCGA G                                     371

```

## (2) INFORMATION FOR SEQ ID NO:377:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:377:

```

GAATTCGGCC AAAGAGGCCT AGGAACTGTT CTGTTGAAAA TACCCATCCA ACAGTTTCTT      60
ACTATGCTCA TCCCAAGTG GCATCCTACA ATACCTACTA CCATAGCCCT CCTCACCTGC      120
CACCATATTC TGCTTATGAC TTTCAGCATT CCGGTGTCTT TCCATCCTCC CCTCCCTCTG      180
GACTTTCTGA TGAGCCCCAG TCTGCCTCTC CCTCACCCAG CTACATGTGG TCCTCAAGTG      240
CACCGCCCAA AACTCGAG                                258

```

## (2) INFORMATION FOR SEQ ID NO:378:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 436 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:378:

```
GAATTCGGCC AAAGNGGCCT AATATAACTT AGCTGCTATT TACAACACTA GAAATTTAGT      60
ACTTTAAGTA ATTTCACATC TATGATAACA TTTGTTACTT TATTTTAAAT GATTTTTTTA      120
CAGTAGTTAT GACAGTAGGA TGGTTATGGA ATTGGAATT AAACCTCCCAA CTAATGAGCT      180
TAAGCTGCTT GGAATATTAA TTATGTAGTT TTTACATTCC ATTTTAAAC AAAAAGTTAG      240
NAAAGGTGCT GGCATTCTGA GGCCTGCAAT TAGGCCACAT AGCAGAAGCT TGCTCCTTCC      300
TTATCTGGGT GAAATATTTT ATTTTGCAC TTTGAGTCAT ATTCCCACCC CTGTATAAGC      360
TACATAGGAG CCTGAATGAA TTGGGTAGGA AAGGAAATTA TGCAAACAAG TCTCAGCTAG      420
TGCTGAATGA CTCGAG                                         436
```

(2) INFORMATION FOR SEQ ID NO:379:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 535 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:379:

```
GAATTCGGCC AAAGNNGCCT AGCACATGCG TCCCCGAGT TGTCTCTTC TCCTTTCCAA      60
GTTCTGNCT CTAAGGAGAT GGAAGTATTC TAAATTTCC TACTTCTAAT TTTTACTATG      120
CAACCAGCAA AGGCGGGAAG GTTGCAAGGA AAATTGTCG GTCTTTCACA ACTAAGNNGG      180
AAATTACTTC TCCTATGTTT TTATTCAAGA GTTGTCTTTA AAACGCTCG CCGGCTTTCC      240
CTTTAACTT TTAGGATTAT AGTTAAGGTT ATGGAAGTA GTCATTCAT AGTTCAGTAC      300
GTTTATATAA GTTCTCTAAC ATAGAAGAAA ACTCAGTCAC CAGACAGTGA AGTCATTAG      360
CAGTGGTTAT TGGAAGATAA TCCACAGTGA TGGTAATGGA ATACTGGAAA CNCATCCTAA      420
ATAATCTGTA ATTATTATTA TTATTATTT GGGACAGNGC GAGGCTCCGT CTCCAAAAAT      480
AATAAATAA AATAAATAA TAAATAATA AATAAAGGAT GGTGCACGTC TCGAG          535
```

(2) INFORMATION FOR SEQ ID NO:380:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 113 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:380:

```
GAATTCTAGN CTGCCTCGN GTCGCACCCA TGTTCAATCG TTCCTTCCTT CCTTCCTACA      60
TTCTTTTTTT TTNCCTTCTT CTTCAGGGTC TCACTCTGTC ACCCTGGCTC GAG          113
```

(2) INFORMATION FOR SEQ ID NO:381:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 660 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:381:

```
GAATTCGGCC AAAGAGGCCT ACACACATCG TTCATGTACA TGATCGCCGG ACTCTGCATG      60
CTGAAGCTCT ACCACAAGCG GCACCCGGAC ATCNACGCCA GCGCCTACAG TGCCTACGCC      120
TGCCTGGCCA TTGTCATCTT CTTCTCTGTG CTGGGCGTGG TCTTTGGCAA AGGGAACACG      180
GCGTTCTGGA TCGTCTTCTC CATCATTCAC ATCATCGCCA CCCTGCTCCT CAGCACGCAG      240
CTCTATTACA TGGGCCGGTG GAAACTGGAC TCGGGGATCT TCCGCCGCAT CCTCCACGTG      300
CTCTACACAG ACTGCATCCG GCAGTGCAGC GGGCCGCTCT ACGTGGGACC GATGGTGTCTG      360
CTGGTCATGG GCAACGTCA+ CAACTGGTCTG CTGGCTGCCT ATGGGCTTAT CATGCGCCCC      420
AATGATTTCG CTTCTACTT GTTGGCCATT GGCATCTGCA ACCTGCTCCT TTA+CTTCGCC      480
TTCTACATCA TCATGAAGCT CCGGAGTGGG GAGAGGATCA AGCTCATCCC CCTGCTCTGC      540
ATCGTTTGCA CCTCCGTGGT CTGGGGCTTC GCGCTCTTCT TCTTCTCCA GGGACTCAGC      600
ACCTGGCAGA AAACCCTGCG AGAGTCGAGG GAGCACAA+CC GGGACTGCAT ACCCCTCGAG      660
```

(2) INFORMATION FOR SEQ ID NO:382:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 377 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:382:

```
GAATTCGGCC AAAGAGGCCT AGTGTGGGA GCTGTGGGCT GTGCCCTTCC AGTCCCCCAC      60
AGCAGTGTCTG TTGCCAAGA ATCTCTAGC GAGAGACCAG GGGCTACTGC CAGGTGACAG      120
AAAAGGGAAC ATCAGTTCCG CTATACCCAC AGCTCACCTG GCGGCCTGGG GCCTGCACAG      180
GGCCTGGTTG AGGCAGTGA CCCCATT+TTT GGGCCGTCTG TGGAGTTGAT GTTCTGTCCA      240
GCTGGTCCCT CTCTGTCTC CCTGGA+ACTT CACCTGCAGT TTGATGCCTG AGTTAA+AATT      300
GTTCTTCTAA ATAATTCACT GTAGACTTTC TGT+TTTAGC TATGTGAAAA CTCTGAGAA      360
ACTTGGAGAG TCTCGAG      377
```

(2) INFORMATION FOR SEQ ID NO:383:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 304 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:383:

```
GAATTCGGCC TTCATGGCCT ACTGGGCGGT CTTTGCAGCA ATAACAATAT CTGCTCCATC      60
CTTTGTGTCT TTCAATGCAA TAGCTTTGCC AATGCCACGG CTTGCACCTG TGATA+AA+AAC      120
TGTACATCCT GCCAGCCTCC CGGTGTTGGG TAACATGACT TTCGTAGATC AGAGGAGGCG      180
GCGGGCGAAG CGCACGTGCA GCGGGGAGC GCGCTGCCT GTGGAGATCC GCGGAGGCCG      240
ACAGGATTCG TTGGCTGCCG TCCCGCTGC TGTGCATTGG GTTAA+AA+ACG ACRACCA+ACT      300
CGAG      304
```

## (2) INFORMATION FOR SEQ ID NO:384:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:384:

```
GAATTCGGCC AAAGAGGCCT ACTTATTTTA CACAGCTTGA TTAAGGTCTA TGTCGGTATA      60
ATTTTTTTTA TGAGTCTNAC ACGTGGGATT TGTTGAGCTT CTTGAATTG  TATGTTTATA      120
CAAATTTAGG AATTTTTTTC ATCCATTATT TATTGAATA  TATTCTCTGT  CTTCACTGTC      180
CTTTGAGGAC TCCAATTACG CATATACCTA ATTGCCTGGA GTTGTCCCAT AGCTTACTGA      240
TGCTTTGTTT ATTTTTTTCT TCTTTTTTTT CTCACCATGC TTTAGTTAGG ATAGTTTTTA      300
TTACTGTTTT TTTAAGTTTG CTAATCTTTT CTTNCAGCAT GCCAGCTCGA G      351
```

## (2) INFORMATION FOR SEQ ID NO:385:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 359 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:385:

```
GAATTCGGCC AAAGAGGCCT AGCGTCTTGG ACATGCCAGG AATAAAAAGG ATACTCACTG      60
TTACCATTCT GGCTCTCTGT CTTCGAAGCC CTGGGAATGC ACAGGCACAG TGCACGAATG      120
GCTTTGACCT GGATCGCCAG TCAGGACAGT GTTTAGATAT TGATGAATGC CGAACCATCC      180
CCGAGGCCTG CCGAGGAGAC ATGATGTGTG TTAACCAAAA TGGCGGGTAT TTATGCATTG      240
CCCGGACAAA CCCTGTGTAT CGAGGGCCCT ACTCGAACCC CTACTCGACC CCCTACTCAG      300
GTCCGTACCC AGCAGCTGCC CCACCACTCT CAGCTCCAAA CTATCCCACA TATCTCGAG      359
```

## (2) INFORMATION FOR SEQ ID NO:386:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:386:

```
GAATTCGGCC AAAGAGGCCT ACTACATGTA AAACACTTTT ATTCATTAAA AAGAAAACCTG      60
ACTGGCTTGG ACCTACAAAT TAGTTTCATT ATTTGTTAAT GTTTGAAAGC CATTAAAAGA      120
TGAATATTAA GGTTCCTTTA TACTCAATAC TTGTAGTTTT GTTTGGGGGA ATGAGAGGAT      180
GCCCTTG GTA CTTTGTGAG GCCTCTCCAC TGAGGGTCAA TCATGACTTC TGTTTTAAAC      240
CAGCCCATCC CATCTTCTCC AGCTGCTCTC CTTATGTCTT GCTTCTCTCC CCTCCAACCT      300
TCTCAGCACC AGGACTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:387:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 279 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:387:

```
GAATTCGGCC TTCATGGCCT AGTGGGAGCT ATTTCTTTT TTGTGCATAT AGATATTTCT    60
TAAATGAAGC TGCTTTCTTG TCTTTTATTT CTAAAAGCCC CCTTATACCC CACTTTGTGC    120
AGCAAAGATC CCCGTGCAGG TCACAGCCTG ATTTGTGGCC AGGCTGGACA AATTCCTGAG    180
GCACAACTTG GCTTCAGTTC AGATTCAAG CTGTGTTGGT GTTGGGACCA GCAGAAGGCA    240
AACGTCCAGC CAACACACAG GACTGCAAGA GGTCTCGAG                                279
```

(2) INFORMATION FOR SEQ ID NO:388:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 255 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:388:

```
GGTAGAAGCA GGAGGTTTTC AACCTAGTCA CAGAGCAGCA CCTACCCCTT CCTCCTTTCC    60
ACACCTGCAA ACTCTTTTAC TTGGGCTGAA TATTTAGTGT AATTACATCT CAGCTTTGAG    120
GGCTCCTGTG GCAAATTCCTT GGATTAAAAG GTTCCCTGGT TGTNAAAATA CATGAGATAA    180
ATCATGAAGG CCACTATCAT CCTCCTTCTG CTTGCACAAG TTTCTGGGGC TGGACCGTTT    240
CAACAGAGGC TCGAG                                255
```

(2) INFORMATION FOR SEQ ID NO:389:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 282 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:389:

```
GAATTCGGCC TTCATGGCCT AGGCCACAT AGAAGAAATG AATGAAAAGA CTTTAGAAAA    60
GCTTGATGTG AAGCAAACAG AACTAGAATC ATTATCTTCT GAACTGTCAG AAGTATTAAA    120
AGCCCGTCAC AACTAGAAG AGGAACCTTC TGTTCTGAAA GATCAAAACAG ATAAAATGAA    180
GCAGGAATTA GAGGCCAAGA TGGATGAACA GAAAAATCAT CACCAGCAGC AAGTTGACAG    240
TATCATTAAG GAACACGAGG TATCTATCAA GAGGAACCTG AG                                282
```

(2) INFORMATION FOR SEQ ID NO:390:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 458 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:390:

```

GAATTCGGCC TTCATGGCCT AGATAGAGCT CAAAAACATG GCATGGATGA ATTTATCTCT    60
TCCAACCCCT GTAACCTTGA CCACGCTTCC CTCCTTGAGA TGGTACAACG CCTTACTTTG    120
GATCACAGAC TTAATGATTC CTATTCTTGC CTGGGCTGGT TCAGTCCTGG CCAGGTGTTT    180
GTACTAGACG AGTATTGCGC CCGAAATGGA GTCCGGGGGT GTCACCGACA TCTCTGCTAC    240
CTCAGAGACT TGCTTGAACG GGCAGAAAAT GGCGCCATGA TCGACCCAC CCTTCTTCAC    300
TACAGCTTTG CCTTCTGTGC ATCCCATGTC CATGGGAACA GTCAACAAAT GCATGTGTAC    360
CTTAGTGGGC TGCCACCAA TACAGACCAC GGTCTTCCC TATAGTGAGT CGTATTAATT    420
TCAGAGGAGT ATTAGAAGA GAAGCTGAAG CTGTCGAG    458

```

(2) INFORMATION FOR SEQ ID NO:391:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 366 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:391:

```

GAATGGGACT CCAAGCCTGC CTCCTAGGGC TCTTTGCCCT CATCCTCTCT GGCAAATGCA    60
GTTACAGCCC GGAGCCAGAG GAGCGGAGGA CGCTGCCCCC AGGCTGGGTG TCCCTGGGCC    120
GTGCGGACCC TGAGGAAGAG CTGAGTCTCA CCTTTGCCCT GAGACAGCAG AATGTGGAAA    180
GACTCTCGGA GCTGGTGCG GCTGTGTCGG ATCCAGCTC TCCTCAATAC GGAAAATACC    240
TGACCCTAGA GAATGTGGCT GATCTGGTGA GGCCATCCCC ACTGACCCTC CACCTCGAGG    300
TTCTCCCTAT AGTGAGTCGT ATTAATTTT AGAGGAGTAT TTAGAAGAGA AGCTGAAGCT    360
GTCGAG    366

```

(2) INFORMATION FOR SEQ ID NO:392:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 523 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:392:

```

GGCGGGTGGG GGTTAATTAT CTGAAACCTA CTAACCGGA CTACAGTTAT CTCTAGGCAA    60
TGCTGTTGGA GTGTTTCCTG CAAATGCATT TCACTCATTT TTTTGTGATT ATTTTATAAG    120
TATACTGGGG CAAAAATTTT ACATTCTAAA TTGTTCTTAT TTATTATTTT TATTATAGAT    180
ATATGAGGAT ATTACTTACT CTATTACACA TATAATTTAT CTTTAAATTT TTCAAGTGAG    240
TTCTACAATT AACTTTATCA TCTAAATTCT CATTACAGAT AGCATTTTAA TGTCCAGAAA    300
GAAAAAAGG TTTTATTATG TTATATGTGA AACCATAAAA ATATTACCAG CTGTGGCCCG    360
GGCGTGGTGG CTCACGCCTA TAATCCAGC ACTTTGGGAG GCCGAATCAC CTGAGGTCAG    420
GAGTTCAAGA CCAGCCTGGC CAACATGCGG AAACCCCGTC TCTACAAAAA TGGAAAAATT    480
AGCCCCGCAT GATGGCAGGT GCCTGTAATC CCAGCTACTC GAG    523

```

(2) INFORMATION FOR SEQ ID NO:393:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 548 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:393:

GAATTCGGCC	TTCATGGCCT	ACCCAGATGA	AACTTTTGGG	GGGAGAGTGC	CCAGACCAGC	60
CTTTGTCCAC	TATGACAAGG	AGGAGGCATC	TGATGTGGAG	ATCTCCTTGG	AAAGTGACTC	120
TGATGACAGC	GTGGTGATCG	TGCCCAGGGG	GCTTCCCCCC	CTGCCACCCC	CACCACCCTC	180
AGGTGCCACA	CCACCCCTA	TAGCCCCAC	TGGGCCACCA	ACAGCCTCCC	CTCCTGTGCC	240
AGCGAAGGAG	GAGCCTGAAG	AACTTCCTGC	AGCCCCAGGG	CCTCTCCCCG	CACCCCCACC	300
TCCGCCGCGG	CCTGTTCTCG	GTCTGTGAC	GCTCCCTCCA	CCCCAGTTGG	TCCCTGAAGG	360
GACTCCTGGT	GGGGGAGGAC	CCCCAGCCCT	GGAAGAGGAT	TTGACAGTTA	TTAATATCAA	420
CAGCAGTGAT	GAAGAGGAGG	AGGAAGAGGA	AGAAGAGGAA	GAAGAAGAAG	AGGAAGAAGA	480
GGAAGAGGAG	GAAGACTTTG	AGGAAGAGGA	AGAGGATGAA	GAGGAATATT	TTGAAGGGGT	540
TACTCGAG						548

(2) INFORMATION FOR SEQ ID NO:394:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 577 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:394:

GAATTCGGCC	TTCATGGCCT	ACTTACTAGG	AATTAAAAGA	CGGATTTCTGA	AGGAGATTCA	60
GAGGCAGCAA	GCACTACAGA	AGTCAGAACT	CCAGCACCAT	CTGCTCCGTT	TCTTGAAGTT	120
TGCTGAACGA	GGACTCACAG	CTGCAACGTG	GGGTGATTGT	ATTGATCAAA	ACCCACTGGG	180
AAGGACAAAG	AGTTTGCCGC	CTTTCGGGGA	TCCAAGGGAC	TGTGGCGACC	GTGCCTCTGT	240
GCCAGCGTCC	CAGGAAGGAA	GCCAACCTTG	AGCGAGCCTG	TCCTCTGTGG	CAGGTCCACA	300
CGGTGTGGGT	GGGCAGGGCT	TGGACCCCGG	TCTCCATGGC	AGGTCCATAC	AGCATGGGTG	360
GCAGGGTTTG	GACCCGCCCA	GCAGCACCAC	GGACCCAGC	CACCTCTCGG	GGCAGACGTC	420
AGAATCCGTT	CCTGAGCAGC	TCCCGTGCCC	TGGGGGCAGT	CACAGAGCCC	CCCAACACCC	480
CCGTGCTCTG	CACCAGCCTC	TCCCTCCACA	CCCGAAGCAG	GCGTCCATCT	GTGTCCTCCT	540
GGCAGCCCTT	CAACACACA	CCACCCATA	TCTCGAG			577

(2) INFORMATION FOR SEQ ID NO:395:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:395:

GAATTCGGCC	TTCATGGCCT	ACATCTTCAT	TGCTGAGGTT	GCAGTGCTG	TGGTCGCCTT	60
GGTGACACC	ACAATGGCTG	AGCACTTCCT	GAGGTTGCTG	GTAGTGCCCTG	CCATCAAGAA	120
AGATTATGGT	TCCCAGGAAG	ACTTCACTCA	AGTGTGGAAC	ACCACCATGA	AAGGGCTCAA	180
GTGCTGTGGC	TTCACCAACT	ATACGGATT	TGAGGACTCA	CCCTACTTCA	AAGAGAACAG	240
TGCCTTTCCC	CCATTCTGTT	GCAATGACAA	CGTCACCAAC	ACAGCCAATG	AAACCTGCAC	300

CAAGCAAAAG GCTCACGACC AAAAAGTAGA GGGTTGCTTC AATCAGCTTT TGTATGACAT 360  
CCGAACATAAT GCAGTCACCG TGGGTGGTGT GGCAGCTGGA ATTGGGGGCC TCGAG 415

## (2) INFORMATION FOR SEQ ID NO:396:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:396:

GAATTCGGCC TTCATGGCCT ACTAAAAGAT ACTTCAAAGT GACAAAAACG TGTTCTCTCC 60  
CCACTTAGAG ACAATGATTA ACAGGGCCCT ATATGTTCTT ACCACATACA GAGGATGCAT 120  
TTATTTTTC TCTATGACAC TTGCAAAAAT CTCTACTGTA ATTAATTTGG GTCTATTATT 180  
AACTCTCTGT TCCATCATAG AATGTGGCCA GGCCTTACAA TGGAGAGCCA GAGTTAAAC 240  
TTCAAGTTGC ATCTGTTTTT GGGCTGAGTC ACCACCGGAC CTCGAG 286

## (2) INFORMATION FOR SEQ ID NO:397:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 208 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:397:

GAATTCGGCC AAAGAGGCCT AAAAATGAAA ACCTCTGCAC TTTAATTTT TTCAGTAATT 60  
TCCAGCTATT TCTAGGTATA AAGAGCAGCT COTTTCTCTT ATTTATTATA GTCTCATGTG 120  
TCAATACTTT CGATGCTTT GCTTAATTCA TGTATGTGTG CAGTGTGCA ATGCCCAGAC 180  
AAACGTGAGC ACACCCACCA ATCTCGAG 208

## (2) INFORMATION FOR SEQ ID NO:398:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 452 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:398:

GAATTCGGCC AAAGAGGCCT ATGATGAAGC TGGGCATTTA TAACTAGATT CATTAAAGGAA 60  
TACAAAGAAA ATACTTAAAG GGATCAATAA TGGTGTCTTC TGGTTGCAGA ATGCGAAGTC 120  
TGTGGTTTAT CATTGTAATC AGCTTCTTAC CAAATACAGA AGGTTTCAGC AGAGCAGCTT 180  
TACCATTTGG GCTGGTGAGG CGAGAATTAT CCTGTGAAGG TTATTCTATA GATCTGCGAT 240  
GCCCCGGCAG TGATGTCATC ATGATTGAGA GCGCTAACTA TGGTCGGACG GATGACAAGA 300  
TTTGTGATGC TGACCCATTT CAGATGGAGA ATACAGACTG CTACCTCCCC GATGCCTTCA 360  
AAATTATGAC TCAAAGGTGC AACAATCGAA CACAGTGTAT AGTAGTTACT GGGTCAGATG 420  
TGTTTCCTGA TCCATGTCCT GGAACGCTCG AG 452

## (2) INFORMATION FOR SEQ ID NO:399:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 330 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:399:

```

GAATTCGGCC AAAGAGGCCT ATCTTCCTGA AGAGCAATGG AGCCGCTTTT ACTTGAAGA      60
GGACTAATCG TATATCTAAT GTTCCTCCTG TTAAAATTCT CAAAAGCAAT TGAAATACCA      120
TCTTCAGTTC AACAGGTTCC AACAAATCATA AAACAGTCAA AAGTCCAAGT TGCCTTTCCC      180
TTCGATGAGT ATTTTCAAAT TGAATGTGAA GCTAAAGGAA ATCCAGAACC AACATTTTCG      240
TGGACTAAGG ATGGCAACCC TTTTATTTC ACTGACCATC GGATAATTCC ATCGAACAAAT      300
TCAGGAACAT TCAGGATTCA CAAACTCGAG                                     330

```

## (2) INFORMATION FOR SEQ ID NO:400:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 377 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:400:

```

GAATTCGGCC TTCATGGCCT AAGCAAACCC AGAGGTGGAT GTTATGAACA GCTGTGTCTG      60
CCAAACACAT TTACCTTTTG GCCCACTTT GAAGGGCAAG AAATGGCGTC TGCTCTGGTG      120
GCTTAAGTGA GCAGAACAGG TAGTATTACA CCACCGGCCC CCTCCCCCA GACTCTTTT      180
TTGAGTGACA GCTTCTGGG ATGTACAGT CCAACCAGAA ACACCCCTCT GTCTAGGACT      240
GCAGTGTGGA GTTACCTTG GAAGGCGTT CTAGGTAGGA AGAGCCGCA GGGCCATGCA      300
GACCTCATGC CCAGCTCTCT GACGCTTG GACAGTGCCTC TTCCAGTGAA CATTCCAGC      360
CCAGCCCCAT CCTCGAG                                     377

```

## (2) INFORMATION FOR SEQ ID NO:401:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:401:

```

GAATTCGGCC TTCATGGCCT AGGCAAGGTC TTCGGCTCGT GCCGTTCTAA GCCGGAGAAT      60
TCTCGCGGGA GCAGGGTTAC GTCCTCGTGG GATTCGTTGG CGGTGGCTGA GGTCTCCAG      120
CAGCCTGACC TGAGTGGGTT AGTGATCCAG AGAAACCAGC AGGCCAACTT GGTGAGGAAG      180
GTTGCGGAAG CTGTTGGAGC AGTGTGGGGA ATTTCCACC AGGATGAGTA TGATTGGCTG      240
TGATTTTAGA TCGTAAAGCT GAAAATTGAA ATCATGAAAG TAGACAGGAC TAAACTGAAG      300
AAGAACTCGA G                                     311

```

## (2) INFORMATION FOR SEQ ID NO:402:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 357 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:402:

```
GCATTGATGG AAAAGCATAA TGTCTTAGAA AAAGGCTTTC TAAAAGAAAA AGAGCAAGAG      60
GCCATTTCTT TTCAAGATAG ATACAAAGAA CTTCAGGAAA AACATAAACA AGAATTGGAA      120
GACATGAGGA AAGCTGGTCA CGAAGCCCTC AGCATTATTG TGGATGAATA TAAGGCACTA      180
CTGCAGTCTT CAGTTAAGCA ACAAGTAGAA GCTATTGAAA AACAGTACAT TTCTGCAATT      240
GAGAAACAGG CACACAAGTG TGAGGAGTTG CTAAATGCTC AGCATCAGAG GCTCCTTGAA      300
GTGCTAGATA CAGAGAAGGA ACTGTTAAAA GAAAAAATAA AGGAAGCCCA TCTCGAG      357
```

(2) INFORMATION FOR SEQ ID NO:403:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 492 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:403:

```
GTTCTAGACC TGCCTCGAGC GTTAATGGTA TAAATCACTT GTTGTAAAG TATTGTTTTT      60
AAATATTGCC AGATTGATA TCTTAGTATT GTATTTTAT ATTGTCTTC ATGTGTTTTT      120
GTTTTCTCAT AAGTGTCTGT ACCCCCCTTT TTTTCTTT AAAGAGAAAT AATGAGAGAG      180
ATTGTCTGTC TTGAAGTTCT CAGTGCCTGT GCATTGCTGC CACTACACAG CTAGTATCAT      240
GACAGCAGCT TCAGAACCAG AGCTGGCTTC CAGGCAAGGC TGGGTGGGGA AGAAAGAGAA      300
AAACAAAAGA ATTATTTCTC TATGCCGAGA CCAGCTCGGT CAGGGAGACC CTAACCTAGC      360
GGTGCTAGAG GAATTAAAGA CATAGACACA GAAATATAGA GGTGTGAAGT GGGAAATCAG      420
GGGTCTCACA GCCTTCAGAG CTCAGCCACG AACAGAGATT TACCCACGTA TTTATTAACA      480
GCAAGACTCG AG                                         492
```

(2) INFORMATION FOR SEQ ID NO:404:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 395 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:404:

```
GAATTCGGCC TTCATGGCCT ACTTCCCTCT AAGGTCCCCA AATGCCTCTC ACGTGCCTAG      60
CATTAGCTG CTGCACCGAG CATGCTCACT GACAACTTT TGGCCAAGAA GAGCCTTTTG      120
GTCTCTCTTG GTCAGATCTA GGAGGGCTTC AGGACTCTCC AAAACTCACC CACTCAGAGA      180
GCCTGCCAGG AACACTCAGC TGAGCGATGG CATTGTGGAG CCTGGGTTTT CAGAAGGGAG      240
CCCATAGTGA GTGGTAGCAT AACCTTGTTA AGGTTGTATT TTCCTTAGAT ATAGAAACAA      300
ATCAAATGCT GCTAAATTGG TAAGGGATGG AGTTTTTATA TCACGTCACA TTTTGTCTGAG      360
CCGTAACCAG ACAGGGAAAA AGCAGAGACC TCGAG                                         395
```

## (2) INFORMATION FOR SEQ ID NO:405:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:405:

```
GAATTCGGCC TTCATGGCCT ACCAAGTTCT AACTGTAAAA TGGGGACATT TTACCTTTCT    60
TTCTTTGGAT AGGATCAGTT CTTAAGAGCA GCCCCGGTAA CTGGAGGAAT GGGAGCCGTT    120
TTGATGAGAA AAATGGGCTG GAGAGAAGGA GAAGGATTAG GAAAAACAA AGAAGGCAAT    180
AAGGAACCCA TCCTAGTTGA TTTAAGACA GACCGAAAAG GTCTTGTTC AGTAGGAGAA    240
AGAGCACAAA AGAGGCCTCG AG                                262
```

## (2) INFORMATION FOR SEQ ID NO:406:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 289 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:406:

```
GAATTCGGCC TTCATGGCCT ACCCATTTGT CAATTTTGC TTTGTTGCAA TTGCTTTTGG    60
TGCCTTTGTC ATGAAACCTT TGCCTACAGG TGCTGTTTAT TTACACCCCT GTCCCAACCT    120
CACCCCACTC CCTTTCTTTT GCTGGTGGGA AGTCAGTAAG AACTGTGGGT GGGGTTCTGA    180
GGTAATCAAT ACAAAGAAGA AGGTAAGAAA TTGGAGGGGA CTCAGGGGAG ATGGCAATGC    240
TGACAAGGGG TTGGATGGAA TTTGTTCTGT AAAGTGAAG CAGCTCGAG                289
```

## (2) INFORMATION FOR SEQ ID NO:407:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 329 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:407:

```
GCTCCTTCTG TATCCTTCCT TTCCCATCTG TCTGCTTCTA ACAAATAAGA CAAGCTAAGA    60
AGCAGCTTGT TTCATGATTC TATACTCACT TCCAAGCTTT CTCTGCATAG ACTTTCCTAG    120
TTTGCCACTT TATCTTTTCT CCATCCCTCC AGCCAGTCAT GAGATTCTAC TCCCCATTCA    180
TACATGCATT TATTTATCCA GACTTTACTG AAGGCTTACT CTTTGAACCT TGCAAAATGC    240
CAGTGAGGCA AAGCATGCAT CCGTACAGG AAAAAGCTCAG TCTAGAGGGG AGAGATAAGC    300
AAACAAGTGA TTACCACACC AGGCTCGAG                                329
```

## (2) INFORMATION FOR SEQ ID NO:408:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 222 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:408:

ATTGAATTCT AGACCTGCCT CGAGAGCTTT TGAGATTGTC TATTTTGTCT GAGTGAGTTT	60
TGGTACTTTA TTGTTTTCGA TTGGTCCATT TCTTCTACGT TGTCAGATCT CTGAGTGTCA	120
AGTTGTTTCA AGTACTCCGT TATTATCTTT TTCATGACTG TAGGATCTGT GGTGATATTG	180
ATGATTGTG TCTTCACTCC TTTTGTGTTG CCTACACTCG AG	222

(2) INFORMATION FOR SEQ ID NO:409:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 505 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:409:

GAATTCGGCC TTCATGGCCT AAACCTGCAG AAATGAAGAC TAGAGTACAC AGCACACTCA	60
GAGCCCAGAC AGACTTCGTC CCAGGACATC ATCTGTTCTT GATGCCCATT CTTCTCTCCT	120
AAACATCATT TACTTTTTC TCTAAAAGTG CCTGCAGACC CCCACTACTC TCTCCCATGG	180
AGAAGGGCAT ATAAGCTTCG AATCTCACGG GGTATTGGG CACTCTGTCT CTTGTGATGC	240
TCCTATGCAT GTAATAAATT TATGTGTCCT TTCTCCTATT AATTGGTCTA ATGTCCATTT	300
ATTCCATAGA TTCAATTATC AAACCTCTCAG AGGGCAGAGG GAAAAATTTT ACTCCCTTAT	360
ATCATCAGAA ATATAAATAA AAATAGCACA ACACTCAGTA AATGATTATG TTATTATTGT	420
TATGTTTGTA ATATCTTGGT GTCTGTTTAT TTAAATCAT ATCACTTAA GAAACAGTGT	480
TCCTTAGGCC ATGAAGGCCG AATTG	505

(2) INFORMATION FOR SEQ ID NO:410:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 650 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:410:

GTATGAACAT TGAGGGCCCA GATCTCAATG TGGAAGGTCC GGAGGGAGGC TTGAAGGTC	60
CCAAATTCAA GATGCCTGAC ATGAATATCA AAGCTCCCAA GATCTCCATG CCTGACATTG	120
ACTTAAACTT GAAAGGCCCC AAGGTGAAAG GTGATGTGGA TATTTCTCTT CCCAAACTTG	180
AAGGGGATCT GAAAGGGCCA GAGGTTGATA TCAAAGGCCC TAAAGTGGAC ATCAATGCCC	240
CAGATGTGGA TGTTCATGGT CCAGACTGGC ATCTGAAGAT GCCCAAAGTG AAAATGCCCA	300
AGTTCAGCAT GCCTGGCTTC AAAGGAGAAG GCCCTGAAGT CGATGTTACC CTCCTAAAG	360
CTGACATTGA CATTTCTGGT CCCAATGTAG ACGTTGATGT TCCAGACGTG AATATTGAAG	420
GTCCAGATGC AAAGCTGAAG GGCCCCAAGT TCAAGATGCC TGAGATGAAC ATCAAAGCCC	480
CCAAGATCTC CATGCCTGAC TTGACCTGA ACTTGAAGGG ACCCAAATG AAGGGTGATG	540
TGGTTGTGTC TTGCCCCAAA GTGGAAGGTG ATCTAAAAGG CCTGAGGTG GACATCAAGG	600
GCCCCAAGT GGACATTGAC ACTCCTGACA TTAACATCAA GAGGCTCGAG	650

## (2) INFORMATION FOR SEQ ID NO:411:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 445 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:411:

```

GAATTCGGCC TTCATGGCCT AGGGGCTGGA GGGTGGCCCG AAGCAGATGG GGCCGGCCTT      60
GCAGGCACTT CTAAGGCCTT GGGGTTTGCT TCCGAGGGAG TAGGGAAGGA GAGCGATGTC      120
ACCCTGTGAG GCTTGGTCAC ATACCCCAAT GGATTGGTA GCACACGCCA CAGTGAAGGT      180
ATAAGCTACT GTCATCACAC GTAATTATT CATGAAACAG AAAATTTTAA AATAAAAGAA      240
AATAGAAGTT TCCCTATTTT CTTCTCCTGC ACTATTGGAT CATCCTGTTT AGCCCTCTTT      300
TAAGACAAAT GGACTTAGCA AACGAGTGTA AATAGGAATG AATGGTTTGG TGGGGTTTAT      360
TTTATTTTAT TTTATTTTAT TTTATTTTAT TTTATTTATT TTATTGAGAC AGAGTTTCAC      420
TCTTGTGCCC CAGGCTGGGC TCGAG                                         445

```

## (2) INFORMATION FOR SEQ ID NO:412:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 290 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:412:

```

GCCTGCCTCC AGGCCTTTGC TCCCACTGTT GNCTCCACTT AGAATAACAT TCCACCCCAT      60
CTCTATAAAT ATCCTACAGA CAAATACTAC CTTCCCCTTA AGGCCAGTTC TAACCCTAAC      120
TGACAACAAA TCATCTCTAC ATGATCTTTT CTTCTGCGGA ATGCCTGCAG CACTGTTTAA      180
TCCTGCCCCA CCACCATCCC CTCACCCAGC ACCCTCTCCC AGACCAGACA GGGTGGCTCA      240
TGCTTGCAAT CCCAGCACCT TGGGAGGCTG AGGCAGGAGG ATTGCTCGAG      290

```

## (2) INFORMATION FOR SEQ ID NO:413:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 421 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:413:

```

GAATTTGACA TCTTAGAACA TTCTGCAACC TTTTGCCTGG GAAATGGAAA CAGATCTAAT      60
CTTTACCACC CTCATGGCTC AAGGACCTCA TCTGGCAGCC TGGCTCATGT TTTTCAGCCA      120
AGTAGCTTCC AGCTTACAGC AGCCCTCAAA TTTGGACCTG CCACCAGCTC CAGAGCTTGA      180
CTGGATGGAG ACAGGACCAT CTCTGACATT CATTGGCCAT CAGGATATAC CAGGAGTTGG      240
TAACATCCAC TCAGGTGCCA CACCTCCCTG GATGATCCAA GATGAAGAAT ACATTGCTGG      300
GAACCAAGAA ATAGGACCAT CCTATGAAGA ATTTCTTAAA GAAAAGGAAA AACAGAAGTT      360
GAAAAAATC CCCCCAGACC GAGTTGGGGC CAACTTTGAT CACAGCTCCA AGGACCTCGA      420
G                                         421

```

## (2) INFORMATION FOR SEQ ID NO:414:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:414:

```

GAATTCGGCC TTCATGGCCT AAGCCAGTCA ACCAGCAGTA TTAGTGCTGT TTTCAAAGAT      60
TTAAGCTCTA TAAAAATTGGG AAATTATCTA AGATCATTTT CCCTAAGCAT TGACACATAG      120
CTTCATCTGA GGTGAGATAT GGCAGCTGTT TGTATCTGCA CTGTGCTCTG CTACAAAAG      180
TGAAAAATAC AGTGTTTACT TGAAATTTA ACTTTGTAAC TGCAAGAATT CCAGTTCAGC      240
CGAGCCACTT CGAG                                         254

```

## (2) INFORMATION FOR SEQ ID NO:415:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:415:

```

GCAAACAGAC AAGGCTTACA GGTTAGTTCG GGATCTGCGC CTTATCAAGC AAATTGTTTT      60
GCCTATCCAA CCTGCGGTGC CAAACCCATA TACTCTCCTA TCCTCAATAC CTCCTCCAC      120
AACCCCTCCA TAACCCATTA TTCGGTTCG GATCTCAAAC ATGCTTTCTT TGCTATTCTT      180
TTGCATCCTT CATCCAGCC TCTCTTTGCT TTCACTGGG CTGGCCCTGA CACCCATCAG      240
CCTCAGCAAC TTACCTGGGC TGTACTGCCA CAAGCCTTCA CGGACAGCCC CCATTACTTC      300
AGTAGCCCTC GAG                                         313

```

## (2) INFORMATION FOR SEQ ID NO:416:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:416:

```

GCCTGCCCCC ACCTTACAGG TCTGGGATGT ACCTTTCCAT CTGTTGCTGC TTTCTTCTAT      60
GGGCCCTTGC CCTCACTCTC AAGAACCTCA ACTACTCCGT GCCGGAGGAG CAAGGGGCCG      120
GCACGGTGAT CGGGAACATC GGCAGGGATG CTCGACTGCA GCCTGGGCTT CCGCCTGCAG      180
AGCGCGGCGG CGGAGGGCGC AGCAAGTCGG GTAGCTACCG GGTGCTGGAG AACTCCGCAC      240
CGCACCTGCT GGACGTGGAC GCAGACAGCG GGCTCCTCTA CACCAAGCAG CGCATCGACC      300
GCGAGTCCCT GTGCCGCCAC AATGCCAAGT GCCAGCTGTC CCTCGAG                                         347

```

## (2) INFORMATION FOR SEQ ID NO:417:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:417:

```

GAATTCGGCC TTCATGGCCT AGCAGATGAT TGACATTGCT ATCGATGGTT TCCTTTTGAC      60
TCCAGTGCAG AAGATCTGCA AGTATCCCTT ACAGTTGGCT GAGCTCCTAA AGTATACTGC      120
CCAAGACCAC AGTGACTACA GGTATGTGGC AGCTGCTTTG GCTGTCATGA GAAATGTGAC      180
TCAGCAGATC AACGAACGCA AGCGACGTTT AGAGAATATT GACAAGATTG CTCAGTGGCA      240
GGCTTCTGTC CTAGACTGGG AGGGCGAGGA CATCCTAGAC AGGAGCTCGG AGCTGATCTA      300
CACTGGGGAG ATGGCCTGGA TCTACCAGCC CTACGGCCGC AACCAGCAGC GGGTCTTCTT      360
CCTGTTTGAC CACCAGATGG TCCTCTGCAA GAAGGACCTA ATCCGGAGAG ACATCCTGTA      420
CTACAAAGGC CGCATTGACA TGGATGCTCG AG                                     452

```

(2) INFORMATION FOR SEQ ID NO:418:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 259 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:418:

```

GATAACTTGA GATCAAATCA GTCATATTTG ACTCTTCTCT TTTTCACTCC TTTTATATCT      60
GATCAGTCAG CAGTTTTTTT AAACCCTGTT CGAAGCAGTT CTCAACACTT GTGCACCCAT      120
TCTTTCTCCT ACACCACTCA ATCTAGACCC TCACATGTGG CTGTCCTGCT TTCCTTCTCT      180
CCTACTTCTA AGCTATTCTG TGGAGAGATG TCAAAGTAAT CTTCACAAAA AATCTGATTG      240
CATCACTTCA CATCTCGAG                                     259

```

(2) INFORMATION FOR SEQ ID NO:419:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 331 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:419:

```

GAATTCGGCC AAAGAGGCCT AATTAGAAAT GGCTACTCCC CAGTCAATT TCATCTTTGC      60
AATCTGCATT TTAATGATAA CAGAATTAAT TCTGGCCTCA AAAAGCTACT ATGATATCTT      120
AGGTGTGCCA AAATCGGCAT CAGAGCGCCA AATCAAGAAG GCCTTTCACA AGTTGGCCAT      180
GAAGTACCAC CCTGACAAAA ATAAGAGCCC AGATGCTGAA GCAAAATTCA GAGAGATTGC      240
AGAAGCATAT GAAACACTCT CAGATGCTAA TAGACGAAAA GAGTATGATA CACTTGGACA      300
CAGTGCTTTT ACTAGTGGTA ACGGGCTCGA G                                     331

```

(2) INFORMATION FOR SEQ ID NO:420:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 269 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:420:

GAATTCGGCC AAAGAGGCCT AAGAGCATTT ACCTGTCTGA CAATTGTATT TTTAATGATA	60
GTTTGCTTTT ACTTGGTCTT TATATATTCA ATTACAAATT ACTGATATTT TGTTTAAATC	120
TACCACATTT TTCCATTGTA CTGTTTATTT TTATGTCCTT TCTTCTTTT AGATTAAAGTC	180
TTTTTCTTC TCACCCCTC ACCCTCCCC CCTGGTTATA CATTCTTTTA CTATTCTTTT	240
TGTTATTCCA TAGTTGCAGC AACTCGAG	269

(2) INFORMATION FOR SEQ ID NO:421:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 405 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:421:

GAATTCGGCC AAAGAGGCCT ACATTGAGGT AAGAGATATT TAAAAGGTTC TTAGGTGAAA	60
TTTGAAGCAG GGATGAGATT GGGATTCCAC CTTTGTGTTCC ATGCATACCT GTTGATAATC	120
AGCTGTTCTT GTATCGACTC CGTGTCAACT CCAGAGCAGG GGGTATCCTC CTGTAGTGCA	180
CCTTCTCTCT TGGCCTGGAG GCAGCACTTT CTGTGCCTGG GCAGCAGAAA TGGGGAATGT	240
TCTTTGGTCC GTTGGAAAA CGGGCCCCAA CATCTAGCCC TGTTCATAA GGCATGGAAT	300
TGCCCAGTTG GGGAGGACCT GTGCTGGAAA GGGATCATCA AACTCCATCT GCCCCATCAG	360
ATGCCTGAAC TCTTGATACA ACTCCTGCCA TCCAAGCTAC TCGAG	405

(2) INFORMATION FOR SEQ ID NO:422:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:422:

GAATTCGGCC AAAGAGGCCT ACTCGTACTT ATTTATAAAA AAAGTAACT GTAAAACAGC	60
CTCAGGCAGG TCCTTCAGGA GGTACTCCAG AAGAAAGTAC TGTTATCATA GATGACAACT	120
CCATATGTGT TATTGCACCT GAAGACCTTT CACCTGGACA AGATGCCGAG GTGGAAGACA	180
GTGATACAGA TGATCCTGAG TATCTTAGTT TTTTGTGTTT TGTGAGACG AAATCTCACT	240
CTTGCCCCCA GGCTGGAGTG CAATGGCAGC ACCTCGGCTC ACTGCAACCT CTGCCTCCCG	300
GGTTCAAGCG ACTCTCCAAG CCTCGAG	327

(2) INFORMATION FOR SEQ ID NO:423:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 315 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:423:

GAATTCGGCC AAAGAGGCCT AGAATAATAC ACTAGTAAAA AAAAATGTAT GTCAGGCACT	60
GGGAAGGGCA GTAGGAATAT AGAAATGAGA AGCCGTGGAT TAGAGACTCA CAGTCTACTG	120
GGTAAAAGAA TACGAAAGCC AATGTATTAT ACTGTGGTAG CTGCTTAGT AGATGTATGG	180
ATAGAAAAGT AACAAGAGAA GAGAATGACT ATCTCTGCCT AACAGAAAGA TATTTTAAAA	240
GAAGGGTTTT GGGGCTGGAT TTTGAAGGCT CAATAGGCTC CTACCATATA GAGAACTAGG	300
AAGCGAGTCC TCGAG	315

(2) INFORMATION FOR SEQ ID NO:424:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:424:

GAATTCGGCC AAAGAGGCCT ACTATCCAGG TTTACATTTT AAGGCAGTCG AGACCTTATT	60
CACGTGGTAT ATAAACAACC ACATTCTCT TTTATATGGA ACAACACTTT TCATTGCGG	120
CTGGCCTTCT CACTAGCTTA TGCTTTTTTT TTTAAGACC TTTCTTAGCA CTCGCTGAAC	180
TCCTCCCCCT CACAATCAAT CTCAGCAACT CAGCAGAGTC GCTTCAGTTC ACAGCTCTTA	240
ATCCTTCACT CCAGACTAAA GCTAATCTTA TGTCTCAAA CAGCTACAAC TCACTGTTAT	300
CACAGTTCGG ACAGCAGAGA CTCGAG	326

(2) INFORMATION FOR SEQ ID NO:425:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:425:

GAATTCGCCA AAGAGCCTAT AGAAATAATA CCACGACCTG CGCATTCAAA GCTGTTGTAT	60
CTGGATTGTG ACTGCGTGGA AGGTCGAGGC GGGAAGACAG GGGCTGTTGC TTTTCGTTAT	120
AAACTCTGCA TTACTTGATT TTTGCACTAC GTACATTTAC TTTGATAACA CTGGAAAGAA	180
TAAATTGGCC ATGTAGTGTA GCTTCCAAAA AAACTATTG CTTGGGTTTC AAGGTCAAGG	240
AAATTTCACT CTCATCAGTT TCTTGGGAAA GAGGAAGTGG AATGATGTTG TCAGAAAGTG	300
AAACCATGGG TCATTTTCAG AACTACTCAG AGTAATAAAT ATTTTGTGTC AGTTTGTTC	360
TTACAAGTGA AATGGTCCCC TCGAG	385

(2) INFORMATION FOR SEQ ID NO:426:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:426:

```

GAATTCGGCC AAAGAGGCCT AAGAGATTTT TATTATGATT TTGATTTCTT TACTACAACA      60
TTGCATGTGT CTGGAGTATA GCCATTACAC TTTATGAAAA AGGCAAAATG GTCATTTGGG      120
GTGTTTTAGG AAGTTTGCCA AAAGGCTCCT TTGTCATTAT AATCCTTCCT AAGCTGCCAT      180
CCACGGGTTT AGGTCATGGA TATGAAAAGT GAAAGGGTTT AGAGATGAAG TAGTGTCCCC      240
TGAGTGCTTA CCAACCTGTT AATCTTTTGT AGATGTTAAT TTTTTCATAT AGAGCCCCCT      300
AAAATCTTGA TGGCTCTAGA TCAGTCAAGC CTAAGAGAAG ACGTATTTAT GGAAAAAAC      360
AAAAAACAAA AAACCTTGC TGGATTGCTA GTAATATCTA CTTCTTGGAA ATTAATACTT      420
CATATTTTTT AAAAAAATTA TTGATGCATT AGGACTCGAG                                460

```

(2) INFORMATION FOR SEQ ID NO:427:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 522 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:427:

```

GAATTCGGCC AAAGNGGCCT AGGAAAAACA TGAAATACAT AAATGGATTA ATTTTGCAAA      60
TTAATCTNGC AAATTAATCT ATAGCTCTTA ATGTTTCTTC CAAATTAAAG GAAAAATGGA      120
TAAGGAAGTA CTTTCTTGCC AACTGTAGA TGAATACTGA ATAAAAGTCA TTCTTCTCTA      180
AAGAAGAAAA GTGCATTTTA GTTTTTTGA AAAAAATGTA TTTTAGAAAG TCTCTTCTAT      240
GCAGATTTTA GAAAGTCTTT TCTATTTTGA GAAAGTCTTC TTGTATGCAG ATTTTGTTC      300
ACTTCCCAT CTGTACTTAC CAAAGGAAAA ATAAACAGTT TATAGAATAT TAATAGAATA      360
ATTATGTGCN ATGTAAAATA TGTGAATCT CCCTAATTTA TATTTACTAT GTGAATATAA      420
ACTACGAAT AAAGAACTG TTCCTCCTTT TATCCATTAT TTTGTTGAAA ACAACTAAAG      480
AAATCTTACA GATTAATGTT CATATTAAA GGACTCCTCG AG                                522

```

(2) INFORMATION FOR SEQ ID NO:428:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 582 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:428:

```

GAATTCGGCC AAAGAGGCCT AGGTAGTTAT CAAGAGATTT TAAACTTCA ACCCTTTTTC      60
TCTTATAGTT AGTGAAGAGA GTAGAATATC TCCAGTTTGT GCTGACATCT CTACAACCTG      120
AACCAATTGGC TTAAACTTCA CTTGGGATTC CCGGTTGCTT GTTTTAGCAT GGCNAAATTT      180
GGCGTTCACA GAATCCTTCT TCTGGCTATT TCTCTGACAA AGTGTCTGGA GAGTACAAAA      240
CTGCTGGCAG ACCTTAAAAA ATGTGGTGAC TTGGAATGTG AAGCTTTAAT AAACAGAGTC      300
TCAGCCATGA GAGATTATAG AGGACCTGAC TGCCGATACC TGAACCTCAC TAAGGAGAGAA      360
GAGATATCTG TTTATGTTAA ACTTGCAAGG GAAAGGGAAG ATTTGTGGGC AGGAAGTAAA      420
GGAAAGGAGT TTGGATATTT TCCAGAGAT GCAGTCCAGA TTGAAGAGGT GTTCATATCT      480
GAGGAAATTC AGATGTCAAC GAAAGAATCT GACTTTCTTT GTCTTCTGG AGTAAGTTAC      540
ACATTTGACA ATGAAGATAG TGAATTAAAC GGTGAACTCG AG                                582

```

(2) INFORMATION FOR SEQ ID NO:429:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:429:

```

GAATTCGGCC AAAGAGGCCT ACTGATCAAG TGACCCATTA CTGCGGGAAA AAACCACACA      60
TACAAAAGCC TTGACCCCA GTAATTTGT ATTGGTATAT TTACCCTGAT CTTAAACTGC      120
AAGGAATGTC CGCAATTAGA GTTTTCTTT GTTTCTAAG TCTGAAACTT GATAATCCAT      180
TTCTGCCTTC CCATGACGAG TGGACATTCC TCCAGCCAGT GGTGAGTTCC TCTTTCCTTC      240
GCTCTCAGCA AGAGCATGGG TTGCCCTCCC ATCTCGTAAG CAGAGCCTAC CACAAACGCA      300
GCTCAAATCT CGAG                                     314

```

## (2) INFORMATION FOR SEQ ID NO:430:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 556 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:430:

```

GAATTCGGCC AAAGAGGCCT ATTGGGTCCT ATTTACAAC TTAAGAATGG AGGCATACTT      60
CAGGAAAGAA AGCACCAGTG CAGTTCCAAT TTATTATTGT ATCTGCTGTC TTGAGAGTAC      120
AGGGTGTATG AGAGTGCACA GTGGTTTAGA ATCACTATGG AATTAAAAA GACCCAGAGA      180
CATTAACAAG AATCCACATT CTAAGTCGTC AGAATCCACA TTTCTGACCT TGTCTGCTGG      240
GGCCTGCTCT GTTTTGTATG GCTCAAAATA TAATCTTTT ATTGAAATAC ATGTTCTCTCA      300
TCCTGTTTCA GGGCTTCTGC CTGGAATGTT CCTCCCCCTA GCATTGTAG GGCTGGCTCC      360
TTCCTGTCTC GCAGGTCTCA GCTCAGATGA CCCCATCTCA GAGAGGGCTT CCCTGACCAA      420
CCAATCTACA GCCCTTCCTA GTCACTTTT TCCACATCAC CCTCTTTATG CATGGAGGCA      480
GATAGGTGTT TTACCCTGTT TATTTATTAT TATTATTTT TTGAGACAAA GTCTTGCTCT      540
GGCACCCAGG CTCGAG                                     556

```

## (2) INFORMATION FOR SEQ ID NO:431:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:431:

```

GAATTCGGCC AAAGAGGCCT AGAAGTAACG GAAGCTACCT TGTATAAAGA CCTCAACACT      60
GCTGACCATG ATCAGCGCAG CCTGGAGCAT CTCCTCATC GGGACTAAAA TTGGGCTGTT      120
CCTTCAAGTA GCACCTCTAT CAGTTATGGC TAAATCCTGT CCATCTGTGT GTCGCTGCCA      180
TGCGGGTTTC ATTTACTGTA ATGATCGCTT TCTGACATCC ATTCCAACAG GAATACCAGA      240
GGATGCTACA ACTCTTACC TTCAGAACAA CCAAAATAAAT AATGTGGGA TTCCTTCAGA      300
TTTGA AAAAC TTGCTGAAAG TAGAAAGAAT ATACCTATAC CACAACAGTT TAGATGAATT      360
TCCTACCAAC CTCCCAAAGT ATGTAAAAGA GTTACATTG CAAGAAAATA ACATAAGGCT      420

```

CGAG

424

## (2) INFORMATION FOR SEQ ID NO:432:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 418 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:432:

```

GAATTCGGCC TAAGGGCCT ACATAAAAGT AAGAAAATAT CTTACTAAAA TCTCTTTTCT      60
TATAACATTT AGNTTACGTA TATATTTTAT CTCCTTTTTT TTGNAATATA TATAAATCAA      120
ATAACAGCTG AATAAACCTT TGGTCTTTTT TTTTTTTTTT TGTCTCAGGA TTGTCTTTAT      180
CTGGGACCCG AGATTAATTG CTTCGTTTTT GCTTTGGCAA AAGATTGTTC TTACAATTTT      240
TAGTCTTTTA AAGTTGACAC AGATTGTGTC AGTCTTGCTC ATTCTAAAAG CACACAAAAG      300
TTGAGCATAA AAATAGGATT AAATTTAGCA ATAAAGAATT ATAAAGACTA AAAGATACTG      360
AGTAAGTTGT TTGACAGAAA CCTGATTATC CATGATGATT ATTTGCAGGC TTCTCGAG      418

```

## (2) INFORMATION FOR SEQ ID NO:433:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 157 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:433:

```

GAATTCGGCC AAAGAGGCCT AGAACTCCAG AGGCAAGTGT TATATGAATT ATGCATTGTA      60
TTCTACATGT TTATTAGACA TGTATGGCAG ATACATTTAT ATTTTACTAA TGGTTATGAT      120
GACTTTAATA ACTTTCAAAG GATTATGGGG ACTCGAG      157

```

## (2) INFORMATION FOR SEQ ID NO:434:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 440 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:434:

```

GAATTCGGCC AAAGAGGCCT ATGTTTTTAC TACTATTATT TTTTTTTACC CAAGGGAGAG      60
AGACAAAAAA ACGGTGGGAT TTATTTAACA TGATCTTGGC AAACGTCTTC TGCCTCTTCT      120
TCTTTCTAGA CGAGACCCTC CGCTCTTTGG CCAGCCCTTC CTCCTGCAG GGCCCCGAGC      180
TCCACGGCTG GCGCCCCCCA GTGGACTGTG TCCGGGCCAA TGAGCTGTGT GCCGCCGAAT      240
CCAACGCGAG CTCTCGCTAC CGCACTCTGC GGCAGTGCCT GGCAGGCCGC GACCGCAACA      300
CCATGCTGGC CAACAAGGAG TGCCAGGCGG CCTTGGAGGT CTTGCAGGAG AGCCCGCTGT      360
ACGACTGCCG CTGCAAGCGG GGCATGAAGA AGGAGCTGCA GTGTCTGCAG ATCTACTGGA      420
GCATCCACCT GGGTCTCGAG      440

```

## (2) INFORMATION FOR SEQ ID NO:435:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435:

```

GAATTCGGCC AAAGAGGCAT AACATAGAG AAATTGGTGA TGTAAACCT TCTGAATTTT      60
GTTTTAAGTG CACTGGGAAG TGATGGAAGG GTTTGTAGCA TAGCAGTAAT CTGATCTGAT      120
CTGATCCGGT GTGAATGTCT TTTTAGCAGA TGATTCATT TTACCAGCTC TCTNGAAAGT      180
TTAATCAATG TGATAGCCAT GACAGTTTAT TAAACTACTT ATTTGAGAAA GTAACGCGCT      240
GTGGGAATCC AGATTATTTG TTTACTTCAT TTTAGATGTT AGTGCTAGCA CCCTTGTTTA      300
ATATTTGTTT TAACACTTAT ATAATTAAAA GCAGGAAATC TCGAG                      345

```

## (2) INFORMATION FOR SEQ ID NO:436:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:436:

```

GAATTCGGCC AAAGAGGCCT AAGAACTCAC AATAAAGTAT CATATTCCTC TCTTTTGACC      60
TAGAATTCAT AGCCCTAGTA ATCTCGTTT GATTAGATGC TTTGATTGGC AGTTATACAT      120
CTTTGATAAC ATTTTCAATG TGAATGAAT TATTCTTTCG TTAAAGCCAT TTTAAGCAGA      180
ATGCTCTATA ATGAGGGCCC ACGAGAAGGA ATAACAAAGC AGGGGTGTTG GGGATGGTGG      240
CTGGGGAGCT TTGGTGTATT TATTAACCTG TGGTTGAGTT TTGCGATGTG TGCAAGTACA      300
CACAGCCCCG AACAACTCGA G                                              321

```

## (2) INFORMATION FOR SEQ ID NO:437:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:437:

```

GAATTCGGCC AAAGAGGCCT AGTTTAAAA CGTATTGTTT AATTTTCNAA CATTTAGGGA      60
TTTCCCAGAT ATCTTNGTTG TNGGTTTCTA ATTTGATTCC ATTATGGTTA GAGACCATAC      120
TTGGTATGAT GAATTAAAAA AAAAAATNTA GAGGTTTGTA TATGGCCTGA AACATTTTTT      180
AGGTGAGTGT TCAGTTTGTA ATAGGAAAGA TGTGTCCTGC TGCCGTAGG TAAAGTGTTT      240
CATAAGTAAT AATTAGGTCA AGTTGGTTGA TCGTGNTAAG GTCTGCTCTA TCCTTGCTGA      300
TTTCCTGTCT GCTTGTCTA GTGATTACTG AGAAAGGAGT GTTGAAGTCN ACAACGATTG      360
TTATGGGTTT GTTCTCTTC TCCNTGAAAT TCTGTCTGNN TATGCGCTCT GTATTTTGAG      420
GACCCCTCGA G                                              431

```

## (2) INFORMATION FOR SEQ ID NO:438:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 392 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:438:

```

GAATTCGGGC TTCATGGCAT ANGCAAGAGT TCCGGGNCCA GNNCANGCNC GGGACAAGNT      60
CAGAGATGAN GTTGCCCANAG GTNATGNNGA ACTCCAGTNC CCGNTGTCCC CGGNTTTTCT      120
CTCTTGTGGN ACATGGGGAN NTNTGGANTC CAGCTCCCAG NACTGGAGTG CTATTCAANT      180
GATCNAGGAN GGAAGTGACA NAAATGTTTT TTTTTTTNTT TTTTAAAAAA GNAGNNNCNN      240
GGGGATCNGA AGNAGATGAA TGCCCTCAAA GGCCATGNAT GTACTTCAAA NGAAGTGGNT      300
NNTGAAAACA GNTNNAANAA TGTAANCGA NAGTNAAAAT NNATGTTGNG GANGAAGGAA      360
NTTGGTGGNN AGTNAAAAAA GAAGTAANCC GA                                     392

```

## (2) INFORMATION FOR SEQ ID NO:439:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 304 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:439:

```

GAATTCGGCC TTCATGGCCT AGGTGTGCTT CCCTTTCCCC ATTTCCCATTT ATTCCCAGCT      60
GTATAGTAGT GTAGTGAAAA TCACTTGAGA TGTGGAAGAG TAGTCTGGTC TAGGAAGAGA      120
GAGGAAAAAG TAAGTTTCCC AGGATAAGAG GGGGAAAAAA GGCCCCAAAG CCTTCTCAAT      180
GAGGAATGGG GAAGGAGGTT TTGCTGCCAG GTTTTACTAA GTGCATTGA ATGAACCTG      240
CTATTGTAGT CCTCTTTTAT TAATGCTTTC CTGACATTTA CCCTGTAGT TGAGGCTACT      300
CGAG                                     304

```

## (2) INFORMATION FOR SEQ ID NO:440:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 579 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:440:

```

GAATTCGGCC TTCATGGCCT AATCACNGNA GTGACTGACA TTATATATTA NGGATCAAAT      60
TATGTCCACA AGCAATATTA TATAATCTAC GTAGAAGTGT AATAACAAAC AAGAGTACAC      120
TTAAATTTAC TTAAAGATAT GTCTTTAGTT CATTCGAATA TAATTCTTGA TTAATATTAG      180
GATTATTTCT ACATTTTAGG ANNTACAAAG GATCACGGGT AACATGGATT GGGNCCANAT      240
ATTTTTTTAA AGTTTCGAAT TGGTATCTGT AGTAGTGGAA TGTATAGAT TTGAAGTAAC      300
TCTCCACGGA CAGTGCTGCT TTCGTGTAGA GCAATTTAAT TGGAGAAGTG GCCATTCTTA      360
CTTCAGGGAT GCAAAGATGG TCTCATACCA TTTGGATAAA TGTGCTGTA TCCATGCTTT      420
TTTCAACTA ATAACATCAT CTCTCTTCAT GACCAGTTAA TTGGGCTATT TGGCAGCCCA      480

```

GTGAACCTAT GTACTAATGG CAAGTTAGGG GCAAATGGAA ATGGACACAT CCGATAAAGT 540  
TGAAATGTAT GTTTTAATCT TTCACAGAAG TCCCTCGAG 579

## (2) INFORMATION FOR SEQ ID NO:441:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 556 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:441:

GAATTCGGCC TTTATGGCCT ACCTACGGTA CCTGAAAACA ACGATGGCAT GGAAAACACC 60  
TCCCATTTAC CTGTTGTTGC TGCTGTCTGT TTTCGTGATT CACCAAGTTT CNTCTCAAGA 120  
TTTATCNCNC TGTGCAGGGA GATGTGGGGA AGGGTATTCT ANAGATGCCA CCTGCAACTG 180  
TGATTATAAC TGTCAACACT ACATGGAGTG CTGCCCTGAT TTCAAGAGAG TCTGCACTGC 240  
GGAGCTTTCC TGTAAGGCC GCTGCTTTGA GTCCTTCGAG AGAGGGAGGG AGTGTGACTG 300  
CGACGCCCAA TGTAAGAAGT ATGACAAGTG CTGTCCCGAT TATGAGAGTT TCTGTGCAGA 360  
AGTAAAGAT AACAAAGAAG ACAGAACTAA AAAGATACCT ACCCCCAAAC CACCAGTTGT 420  
AGATGAAGCT GGAAGTGGAT TGGACAATGG TGACTTCAAG GTCACAACTC CTGACACGTC 480  
TACCACCCAA CACAATAAAG TCAGCACATC TCCCAAGATC ACNACAGCAA AACCAATAAA 540  
TCCAGGACC CTCGAG 556

## (2) INFORMATION FOR SEQ ID NO:442:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 528 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:442:

GAATTCGGCC TTCATGGCCT ATTATTTTGG CACCAGCGTC AAGACAAATA ATATCCTCTC 60  
CCATTATTTT CATAAGTAAC ACAGATTCCC TGATTTTAA AACTAAAAA TACAGCTAAA 120  
CCTTTCTTAT GTATAAGTA TGCCTATCAT ATACAGGGAG AGGTGGGTAA TAACTTCCT 180  
GTAATGACAG TGTTTGGCAT TTCTTTATGG ATGGAATTGG AACATGAACA AGACCATGTC 240  
CAGCGTTTTT ACTGTGAATG TAAATGGAAC AGCAGCCCAA AGCTGTTGTC TGTGCCCCAG 300  
AGGTGCTACC TGTAAGACAG GACCAACTCC ATGTGTGTGT GTTAAGTGTT TGACTCCAAT 360  
TAAGACTCCC AAGCAAATCC TGCATATTC AAATGTAAAG AGTACTCAGT GGGAAAAAGG 420  
TTGTTACCTC AAAGTCATTG CTTCTTTCCT GGCTGGGTCA CAGGGTGAAG AGATGAAGGT 480  
GTCTGATGTA TATAGACAAT TAGGAAAAA TGAGCGGCTT TCCTCGAG 528

## (2) INFORMATION FOR SEQ ID NO:443:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 304 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:443:

```

GAATTCGGCC TTCATGGCCT ACTGGAATCT GCAGCCCCCA CATGCATCTG TCTAACGCAT      60
GCCTCGTGTT CGTTTTGCAA ACATGCCTGT GGTGGAGGGT GGTCAATTGT AGCCCTGTGC      120
GTCTCAAGGC TGCCTTGTA GGCCATTCCC AGTGCCTGCC CTTGAGCTCC TTACCACCCC      180
TTTTCTGCT CGGCCCTTTA ATCCCTGACA GACCTGGACT GTGTGGCTGA AGGGGGACCT      240
GCAGCACTGC AGAAATGCCT CTGCGTGGTG CCATGAAGGA AAGAAACCTT GGCTTGGTCT      300
CGAG                                                                    304

```

## (2) INFORMATION FOR SEQ ID NO:444:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 275 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:444:

```

GAATTCGGCC TTCATGGCCT AGGGCAGGGG GAGGGGTGCA NAGTGGGACC CTCACCACAG      60
GGTACTGAGA CAGGTCAATTG TAGGTCCGCC CCGCAATGGT GTTGAGTTGC ATCAAGTACT      120
CGAAGTTGGA TATCTCACGC TGTACCCATT TCTGGGTAAG GCCTGAGGCA CGCACCATCT      180
CCTGGGGGGA GCGGCTGCTT AGGTAGCCAA GAGAGGGGGG CCGTAGGCGC AGGANCCACG      240
AGTACACCTG GCCCCATCCC ACCCATCCC TCGAG                                                                    275

```

## (2) INFORMATION FOR SEQ ID NO:445:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 418 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:445:

```

GAATTCGGCC TTCATGGCCT AACCAGCTTT AATTTCATT GAGGAATAAT AACACCCTA      60
GAGATTCATA GGAAAGAGCA TTGAAATACA TTTTGTGCAT AAAGATACCT AAAACCATCT      120
ACCCAGCTTA GGGTTGAACT GAATTTCTGT GAAATAAATT TGTTTTAAAT ACTAATTATT      180
TTAAACTAC TTAATTCTTA AAAACAATGT CATCAGTTTC AAAAGTTTCA CTTTGGGAGG      240
ATATTCCTTA AAAGGCATAC ATAGATGGTA AAGTATAAAA TATTTCTGAC AGAATTATTC      300
AGTATTATTC AACATTTACT TTCATGTTTG TTATTGTACC ACAAAGATAG TGTCAATTGT      360
GGGTAAAT GTTGGCTGTT TTTGTAATA TACTTAAAC TGTAACCACT GGCTCGAG      418

```

## (2) INFORMATION FOR SEQ ID NO:446:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 304 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:446:

```

GAATTCGGCC TTCATGGCCT ACTACATCAA GCACCAGAAC CGCCAGCTGC GCGCCCTGTT      60
GCTCAGCCAC CAGTTCAAGC GCCGGGAGGC CGACCAGACC CAGCACAGA ACTTCTCCTC      120

```

CGCCGTGAAG TCCCCGGTCC AGGTCATCCT GCTCCGTGCC CTGCGCTTCC TGGCNTGCGC	180
CTTCCTACTG ACCACCGCGC TGTATGGGGC CAGCGGACAC TTCGCCCCAG GCACCACTGT	240
GCCCCGCGC CTGCCACCTG GTGGCAATGG CTCAGCCACA CCTGACAATG GCACCAGGCT	300
CGAG	304

## (2) INFORMATION FOR SEQ ID NO:447:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 380 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:447:

GAATTCGGCC TTCATGGCCT ACAGAGATGG ATTATCCTAC TTTACTTTTG GCTCTTCTTC	60
ATGTATACAG AGCTCTATGT GAAGAGGTGC TTTGGCATAC ATCAGTTCCTC TTTGCCGAGA	120
ACATGTCTCT AGAATGTGTG TATCCATCAA TGGGCATCTT AACACAGGTG GAGTGGTTCA	180
AGATCGGGAC CCAGCAGGAT TCCATAGCCA TTTTCAGCCC TACTCATGGC ATGGTCATAA	240
GGAAGCCCTA TGCTGAGAGG GTTTACTTTT TGAATTCAAC GATGGCTTCC AATAACATGA	300
CTCTTTTCTT TCGGAATGCC TCTGAAGATG ATGTTGGCTA CTATTCCTGC TCTCTTTACA	360
CTTACCCATG GGAATCGAG	380

## (2) INFORMATION FOR SEQ ID NO:448:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 144 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:448:

GAATTCGGCC AAAGAGGCCT AAACAAATGA GGGTAGTAAT TTTTATCTG CTAAAACTTA	60
TATTTATATC ACATACTTGT TGCAATGATT TCAGTGTCTA CATAAATGGT GGCTTAGCTG	120
AGGCAGGTCT AGAATTCAAT CGAG	144

## (2) INFORMATION FOR SEQ ID NO:449:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:449:

GAATTCGGCC AAAGAGGCCT ACTAGACGTT TGTACAACT ATTCCCTTGA GTTATTTTCT	60
CTGGCTCTTC AGCTCCTTCC TCCCACCCCC TCCCTGCAC CACCAATCCA TTCTTTTGCT	120
TAATTTCTCT CCATCCTTCA GGTTCAGCT TTAAGAGGTC ACTTCTTTTA GGAGACATTC	180
CCTGAATCCT CTCACCTCCA CCCACAAAA AGGCCTCTCC AGATGCCCTT CTTTCTGCT	240
CAAACCTCAT CTGCTTCCTT TATCATATGC TTATCGTTT GGATTGTAAT TATTTATTTA	300
ATTGCATGTC TTTCTGCTAG TTTTGTGTT AGCAACAACA AGGATCTCGA G	351



## (2) INFORMATION FOR SEQ ID NO:450:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:450:

```

GAATTCGGCC AAAGAGGCCT AGATGATGGC AGGAATGAAA ATCCAGCTTG TATGCATGCT      60
ACTCCTGGCT TTCAGTCCTT GGAGTCTGTG CTCAGATTCA GAAGAGGAAA TGAAAGCATT      120
AGAAGCAGAT TTCTTGACCA ATATGCATAC ATCAAAGATT AGTAAAGCAC ATGTTCCCTC      180
TTGGAAGATG ACTCTGCTAA ATGTTTGCAG TCTTGTAAT AATTTGAACA GCCCAGCTGA      240
GGAACAGGA GAAGTTCATG AAGAGGAGCT TGTGCAAGA AGGAACTTC CTAAGCTTT      300
AGATGGCTTT AGCTTGAAG CAATGTTGAC AATATACCAG CTCCACAAA TCTGTCACAG      360
CAGGGCTTTT CAACACTGGG AGTTAATCCA GGAAGATATT CTTGATACTG GAAATGACAA      420
AAATGGAAAG GAAGAAGTCA TAAAGAGAAA AATTCCTTAT ATTCTGAAAC GGCAGCTGTA      480
TGAGAATAAA CCCAGAAATC TCGAG                                     505

```

## (2) INFORMATION FOR SEQ ID NO:451:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:451:

```

GAATTCGGCC AAAGAGGCCT AGTCGTAAGT TACCATAATA GGTGCTTGCA GTCATTGATA      60
TAATCCAGAA AGCTAACGAA ATGCAATGA TCAGGCTCAG TATAACTATA TTAGTTATCA      120
TCTTTATATA TCTTTGTCAT ATATTGTCGT TAAGATCTGT CATGGAATAT AAGGATATGA      180
GCTCCTGCGG GAAAGAATAT TTAGCGTTTC GGAGAGAAAAG TCATTTACGA TGTGAGCAAG      240
ACACTTGTTT AGAGGCAAAC ATAAATCCCA ACATATTCCA CCGACCAAAC AAGCATAAAA      300
ATCACAAAAA TTCAACTCC TTCCGAAAC TCCTACTGGC CCTCGAG                                     347

```

## (2) INFORMATION FOR SEQ ID NO:452:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:452:

```

GAATTCGGCC AAAGAGGCCT ATCTTACTAT TTTTATGTCA TTGGTTTTTT CTCTTTCTT      60
TCTTTCTTTT TTTTTTTTTT TTTTGGAGC AGAGTCTCGC TCTGTGGGGA CACTGTTCCG      120
TTCAGAGGCC CCTCCAGCC ATGGGGTGGG GGACAGTGGT GGGCGTGGGA ATCCAGCGA      180
GCATCCTGGA GGGTGGCTCG TCTCCATGTA TTTTGTCTTT CCCCCTCTT TCCATGGGGT      240
CCCCTGCCAG GGTCAAGCAC TAATATGTGG TGAAGGCAGC AAACAGCGTC GGCCTCCCTT      300
TAGGGGTGGG GAGAGGGCTG TAGCACCAAG AACCCCTCC CCCGCCACG ACATCCCTGA      360

```

AAAGGAGACT AAAATAAAGC CCCGGCGCCT CGAG

394

## (2) INFORMATION FOR SEQ ID NO:453:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:453:

```

GAATTCGGCC AAAGAGGCCT AGGAAAAACA GAGTAAAAAA TTGGAAAAGA AGAAGGAAAC      60
AATAACAGAG TCAGCTGGTC GACAACAGAA AAAGAAAATA GAGAGACAAG AAGAGAAACT      120
GAAGAATAAC AACAGAGA1 TATCAATGGT TCGAATGAAA TCCATGTTTG CTATTGGCTT      180
TTGTTTACT GCCCTAATGG GAATGTTCAA TTCCATATTT GATGGTAGAG TGGTGGCAAA      240
GCTTCCTTT ACCCCTCTTT CTTACATCCA AGGACTGTCT CATCGAAATC TGCTGGGAGA      300
TGACACCACA GACTGTTCCC TCGAG                                     325

```

## (2) INFORMATION FOR SEQ ID NO:454:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:454:

```

GAATTCGGCC AAAGAGGCCN AGGGTCACAG GGTGGTTATC TCACTTCGCA GCTTTTCCTT      60
TCTGAGGCCA GAAAAGGAAG GGGTTGCCT TCCTCTAGTA TTTATTCTTC TGGACTACAT      120
CAAGTACTCT AAGCCTGATG TTAGCAATA ACTGCCCAT AGCCATGGC TACATTTGCC      180
TCTTTCTTGT TCCAACAATA TTAGTGATCT GTGACACAGG ACACACTCTT TGTTTGCTAG      240
CTACAAATTC TAACAAAGCT AAGTTTATT CATGTAGNTA TTCACAAATT AANACAACAC      300
ACACACCACA CACACACACA CACACACACA CACACACATA CCACAAAACC      360
CAGAGATCAC CAAATACTAT ATAAATAAAC AAGCCCAAAG TCACAGATCA GGGACACTCG      420
AG                                     422

```

## (2) INFORMATION FOR SEQ ID NO:455:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:455:

```

GAATTCGGCC AAAGAGGCCT AGACGTCCAA GAAAAACAT TTGGTGAAAG TCAGGATTTA      60
CCTTTGAAAT CCGACTTGGG CACCAGGGAA GATAGTAGTG TTGCATCTAG TGATAGGAGT      120
AGTGTGGAGC GAGAAGTGGC AGAACACCTA GCAAAAGGCT TCTGGAGTGA CATTGGCAGC      180
ACGGACACTC CTTGCCAAAT GCAGTTATCA CCTGCTGTGG CCAAGATGG CTCAGAACAG      240
ATCTCACAGA AACGGTCTGA GTGTCCGTGG TTAGGTNTCA GGATTAGTGA GAGCCCAGAA      300

```

CCAGGTCTCA CTCGAG

316

## (2) INFORMATION FOR SEQ ID NO:456:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 458 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:456:

GAATTCGGCC AAAGAGGCCT AGTCAGTCTG AGTTAGAAAA TCGACTCCAT CATCTAACAG	60
AGACTCTCAT CCAGAAACAG ACCATGCTGG AGAGTCTCAG CACAGAAAAG AACTCCCTGG	120
TCTTTCAACT GGAGCGCCTC GAACAGCAGA TGAAGTCCGC CTCTGGAAGT AGTAGTAATG	180
GGTCTTCGAT TAATATGTCT GGAATTGACA ATGGTGAAGG CACTCGTCTG CGAAATGTTT	240
CTGTTCTTTT TAATGACACA GAAACTAATC TGGCAGGAAT GTACGGAAAA GTTCGCAAAG	300
CTGCTAGTTC AATTGATCAG TTTAGTATTC GCCTGGGAAT TTTTCTCCGA AGATACCCCA	360
TAGCGCGAGT TTTTGTAATT ATATATATGG CTTTGCTTCA CCTCTGGGTC ATGATTGTTT	420
TGTTGACTTA CACACCAGAA ATGCACCACG GCCTCGAG	458

## (2) INFORMATION FOR SEQ ID NO:457:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 186 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:457:

GAATTCGGCC AAAGAGGCCT ATCGAGGTTT GGTTGACTGA TGAAGCTTT TATTTCTTTA	60
ACCATTTATG CATTTTCTCA ATTTGCTACA ATAAACATAG ATTGCACAGG GGTGAATACT	120
AAGGAACTCG GAGGGTTAGG GTTAATTTCT GTGAAAGACC AAATATGTTT CTCTGGTTCT	180
CTCGAG	186

## (2) INFORMATION FOR SEQ ID NO:458:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:458:

GAATTCGGCC AAAGAGGCCT AGCATTATGG TATATTTTAA ATTCATCAAG CTCATCTGTA	60
TGTGTCTTTT TGTCTTTTAA CTACTGAGAG GATTGGGGCT GGGATCATGG CAGCCTGCTC	120
TGATGTATTT CTCTCCACTC TATTTTATTA TTTTTTTAAA GAGTTCTAAC TTAAATACGT	180
GGACCAGCTA TTGGATAACT TTAATTCATA TATTTATCAT TCTTTCTATT CACTTTGCCA	240
CATACACACC ATGTGATGAT TTAAACCCG ATTTCTGTAT AGAGAATGTT AAAAGGATAG	300
CACTCGAG	308

## (2) INFORMATION FOR SEQ ID NO:459:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 303 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:459:

```
GACATGCTGT GGTTCACCG CGCACTCACC CTGCTCATCA TCCTCCGCCA CCTCACCAGG      60
AAGGACCCAC AGGGGCTGGG CGTGACGAGT GACGCCATCG CCGATGCCTG CCAGGCCCTG      120
GTGGGCCCCA CCGCCACAG CCGTTGCTGG TGATCTCCGG GATCCCCACC CACCTGGACG      180
AGGGCGTAGT CAGAGGCGCC ATCCGCAAGG CCTGCAACGC CCACGGCGGG GTCTTCAAAG      240
ACGAGATCTA CATCCCGCTG CAGGAAGAAG ACACCAAGAA GCCAAAAGAC AAGGCCGAGG      300
GCG                                                                                   303
```

## (2) INFORMATION FOR SEQ ID NO:460:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 250 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:460:

```
GAATCGGCC TTCATGGCCT ACACTTTAAT TGCTGTTATC ATGGGCCTAA TTACAGTCAC      60
TGCAGTGGCC ACCACTGCCG GAATGGCATT ACACCACTCC ATTCAAGCGG CTCATTTTGT      120
TAATGGTTGG CAAGCCAATT CCATCCAAAT GTGGAATTCT CAACAAGGCA TCGATCGAAA      180
ATTGGCAAAT CAAATTAGTG ATTTAAGACA GTCTGTTATT TGGCTTGGAG ATCAGGTAGT      240
GAGTCTCGAG                                                                                   250
```

## (2) INFORMATION FOR SEQ ID NO:461:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 309 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:

```
GGTGAGCCT GCTTCACATC TCTAATGAAC ACCCTCATGA CGTCGCTACC AGCACTAGTG      60
CAGCAACAGG GAAGGCTGCT TCTGGCTGCT AATGTGGCCA CCCTGGGGCT CCTCATGGCC      120
CGGCTCCTTA GCACCTCTCC AGCTCTTCAG GGAACACCAG CATCCCGAGG GTTCTTCGCA      180
GCTGCCATCC TCTTCCTATC ACAGTCCCAC GTGGCGCGGG CCACCCCGGG CTCAGACCAG      240
GCAGTGCTAG CCCTGTCCCC TGAGTATGAG GGCATCTGGG CCGACCTGCA GGAGCTCTGG      300
TTCCTCGAG                                                                                   309
```

## (2) INFORMATION FOR SEQ ID NO:462:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:

```
GAATTCGGCC TTCATGGCCT AATGAAGAAA AGCAGAATTC CAAATTCAAA CTGTTGGACT    60
GAGCCAAGTG GACAGACCCT CCATGAGTGC ACTTCTTCC AAGAAATCCC CAGATTTACC    120
CCATAGAGGT CTGGGATTAC CTGGAATATA ATATGAAAAA CATTTTITAG GCTGGGTGTG    180
GGGCTCACAC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CGGGCGGATC ACCTGAGGTT    240
GGGAGCTCGA G                                     251
```

(2) INFORMATION FOR SEQ ID NO:463:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 225 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:463:

```
GAATTCGGAA CAATGGGGGT TTCAAACAT AAAAGTGAAA GTCCTGTGA ATCTCCTTAT    60
CCAAATGAGA AAGACAAGGA AAAAAATAAG TCAAAATCTT CAGGCAAAGA AAAAGGCAGT    120
GATTCATTTA AATCTGAGAA GATGGATAAA ATCTCCTCCG GTGGCAAAAA GGAGTCCAGG    180
CATGATAAAG AAAAGATAGA AAAGAAAGAG AAACGGGACC TCGAG                                     225
```

(2) INFORMATION FOR SEQ ID NO:464:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 527 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:464:

```
CTCGAGGCGT GTGGGATCAT GAGGCAAAGA AAGTCCAACG AGGGAGAGAG GAGAGTGAGG    60
GATGAGAGGG GACACTTGCT CCATCCTAGT CCCCACGCGG CCCAGCTGGC TTCCTTTTCC    120
AGAATATCTC CTGCTATAA CCTGGCAGCA GGGGAGCCAA GGTCTTCTC CATCCTTACA    180
GGCACTGAAC CAGGATGTAG GCGCACTG CTGTGTTCTC TCTGGCCCAT CCTCTTAAT    240
TGTCTTTCCC TTCCAGGTC ACAGGATGCT TATTCTCATC TCCAGGCCTT TGCACGGGCC    300
GGGCCTGCTG CCAATCCCCG CACTCTCCCC TTCTTAGGGC CAGGCTAACT CTTCCCCATC    360
CCCGGGGCTC AAGCGTTCAG GTCTCTTCCA AAAGCAGTCT TGGTGGTCCC TGCCACGCGT    420
TACCCTCCTC TCAAGTCACC CGGGAGGTGG AGGTTGCTGT AAGCCAAGAT CGCAGTGAGC    480
TGAGATTGCA CCATTGCACT CCAGCCTAGG CCATGAAGGC CGAATTC                                     527
```

(2) INFORMATION FOR SEQ ID NO:465:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 317 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:465:

GCACTCATAA AAATCTTACT CAGAAATCTT CAGAGGTTTG CTAAGGATAC AATTGATTG	50
TTACACATTT AATGCTCACC AGTGCTTAG GCCCACACCA TTTATCCACC CTGATTGCT	120
ACTGCTCTTT GAAATACAAC CAGTGTTC A GCCAGACTGT TTTCTGCTT CTGCTCCCT	180
TCTCCTCCTC CCAGCACATC TGTGAATTCT TTGACTGGTT TACCACTCCC AACTCCTCC	240
CCAGCAATGC AGATCTTCTA CACCCTTAG GATCTAAGCT AAGTCTGCTT CCCAGATATC	300
CTCCCGAACA GCTCGAG	317

(2) INFORMATION FOR SEQ ID NO:466:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 348 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:466:

GGTCATTCTT TCCATCGCTG CGGACACGGG AGTCAGAAGT GAAACAGTCC TGTCTCGTG	60
GGGCTTACGT TCCAGGCGCA AGAGCCACAG GTAGTCGAAT TGGGAACCG CCTCGGATGT	120
CACATAAGCG CCCAGGGAGG ACAGGGCAGG ACAGGGCCTC CCTGGGGAGG TGACTTGAGT	180
CAAGACTCAA AAGAGGGAAG CGAGGGAACA AGCCATGCGA GGAACCTAACG AAGGAACATT	240
CCAGAAAGAT TTCACATCCC AAGCCTAAGG TCCAGGGGCA GCAGGCATTG AGGCGGATGT	300
GGCTGGAGTG GAGAGAAAGA GGAATTAAAA GGATGGCATG AGCTCGAG	348

(2) INFORMATION FOR SEQ ID NO:467:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 293 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:467:

GAATTCGGCC TTCATGGCCT ACGAGGAAAG ATCTAATTAT CATGGACCTG CGACAGTTTC	60
TTATGTGCCT GTCCCTGTGC ACAGCCTTTG CTTGAGCAA ACCACAGAA AAGAAGGACC	120
GTGTACATCA TGAGCCTCAG CTCAGTGACA AGGTTCAAA TGATGCTCAG AGTTTTGATT	180
ATGACCATGA TGCCTTCTTG GGTGCTGAAG AAGCAAAGAC CTTTGATCAG CTGACACCAG	240
AAGAGAGCAA GGAAAGGCTT GGAAAGATTG TAAGTAAAT AGGCTGGCTC GAG	293

(2) INFORMATION FOR SEQ ID NO:468:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:468:

GAATTCGGCC	TTCATGGCCT	AATAAATTGC	CAGCATANTA	AAAAACTGCC	TTACACTCAA	60
TTGCTACACC	TTTTCACAGG	CAAAGGTTT	TATTCTCTCC	TAAATTAATT	TTATCCCGTT	120
TTTTTTTACC	ACCTAACTTT	TGCCTTTTAT	TCAGAACTAA	TGTATTTTTT	TCTTATTGTC	180
GTTTTTTTTT	TCAAATTTCC	CTCCTCGGTG	GAAAGTAAAG	GAGTAGGAAC	ATACTATTAT	240
TCAACCAACA	TGCAGCAACC	CTTACGTACG	GTCCTCGAG			279

(2) INFORMATION FOR SEQ ID NO:469:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:469:

GAATTCGGCC	TTCATGGCCT	AAGTTTTGAA	AAAAAAAATC	TTTAAGTGGA	TTGTGAGTAG	60
ATTTTTTTAA	GGAGCATTIT	TATAATATTT	TTCCTGAATC	CTTGCAATAT	TGACAGTGTC	120
TTTCTATTGT	GTTTATGTGT	GGCAGCAATT	TACTTTATAT	CAAAGTTTTT	TGTTTTTGT	180
TTTGTTTTGT	GAGACACAGT	CTCACCCTAT	CACCCAGGCT	GGAGTGCACT	GGCACTATCT	240
CGGCTTACTG	CAGCCTTGAC	CTCCAGACT	CAAGTGATCC	TCCCACCTGC	CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:470:

GAATTCGGCC	TNCATGGCCT	ATGTTTTTTA	TATATGGATT	TATTTTGTCT	TTTTTAGGCT	60
GATTTCAGTGT	GAAAATGAGG	TAGGGAAATT	GTTGTTTATC	ACAGAAATCC	CAGAATTAAT	120
ACTGGAAGAC	CCCAAGTGAAG	CCAAAGAGAA	CCTCATTCTG	CAAGAAACAT	CTGTGATAGA	180
GTCGCTGGCT	GCAGATGGGA	GCCCAGGGCT	AAAATCAGTG	CTATCTACAA	GCCGAAATTT	240
AAGCAACAAC	TGTGACACAG	GAGAGAAGCC	AGTGGTTACC	TTCAAAGAAA	ACATTAAGAC	300
ACGAGAAGTG	AACAGAGACC	AAGGAAGAAG	TTTTCCTCCC	AAAGAGGTGA	GAAGGGACTA	360
TAGCAAAGGA	CTCGAG					376

(2) INFORMATION FOR SEQ ID NO:471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:471:

GAATTCGGCC	TTCATGGCCT	ACAAGATTGG	CAAGATGCTT	ATTTTGGTG	CCATATTGG	60
CTGCCCTTGAC	CCAGTGGCAA	CACTAGCTGC	AGTTATGACA	GAGAAGTCTC	CTTTACCAC	120
ACCAATTGGT	CGAAAAGATG	AAGCAGATCT	TGCAAAATCA	GCTTTGGCCA	TGGCGGATTC	180
AGACCACCTG	ACGATCTACA	ATGCATATCT	AGGATGGAAG	AAAGCACGAC	AAGAAGGAGG	240
TTATCGTTCT	GAAATCACAT	ACTGCCGGAG	GCTACTCGAG			280

## (2) INFORMATION FOR SEQ ID NO:472:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:472:

GAATTCGGCC	TTCATGGCCT	AGCAGTAAGC	CAGGATTGCA	CCACTGCACT	CCAGCCTGAG	60
TGACAGAGTG	AGACTCTGTT	TCAAAACAAA	ACAAAAAACT	TTACAGCAAT	CCTGGTCCCT	120
ACCATGGAGC	ATGTGTTACA	GGAAAACAGC	CAGTCCACTC	TGCAACCAAT	TTGGACATGG	180
CCCTGAAAAT	CCTTTTGGCA	CAGAAAGGGG	AAAATAAGAG	TACTGGCAGA	AAGTCAGATG	240
CTGGGGATGC	CTCACCTCT	AGTCTCATGA	CTATCACACA	TGAGACGGTG	TTCCGCTGTA	300
ACTTTTCCCC	CCCCCCCCCC	CGTTTGTGGA	TCTGAATCTG	GAAAAGAGCT	TGGAGAGATT	360
TACAGGCCTC	CTCTTCTGCA	ATCAGTAAGA	GTACCATGTG	GAGGCAGAGA	GCCAGAATAG	420
GTTGTGGGGC	TTCTCGAG					438

## (2) INFORMATION FOR SEQ ID NO:473:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:473:

GAATTCGGCC	TTCATGGCCT	AGAACAGCTC	TCCAATTCAC	ACTTATCTGT	ACAATGTACA	60
TTAATAACTA	ATTTGTTAGA	TGATTAATAC	CAATAATTAA	CTTGCTAGAG	GACCCAGGAA	120
ACAGAATATC	TGCAAGGCC	AGAGTAGATC	ATAAATAAAT	AGGAATGCAG	ACATAAGATG	180
TTCACTTTTG	GAACAGTAAA	GCTATAATGA	GTTTTCTTTA	AAATCAAACA	ATTGTACAAT	240
GCATTATAGT	CTACAACTTA	TTCTGTAGTT	CAAATAAATA	AAACTTTCCC	CTGTTACAGA	300
AAGACAGCCC	TCCTCCCAGC	AACATTTTCA	ACTGGATGGA	TTGATTCCTC	ACCTGACATA	360
ACTCTAAAAT	CCTCACTGAA	GAAGCCAGGA	AGTCAAATCG	AGGCTGAAGA	CCTGAAAGTA	420
CAGGGGACTA	AACCCAGAAA	GCAGTAGGCC	ATGAG			455

## (2) INFORMATION FOR SEQ ID NO:474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:474:



GAATTCGGCC	TTCATGGCCT	ACATGGACCT	CCTGCACAAG	AACATGAAAC	ACCTGTGGTT	60
CTTCCTCCTC	CTGGTGGCAG	CTCCAGATG	GGTCCTGTCC	CAGGTGCAGC	TACATCAGTG	120
GGGCACAGGA	CTGTTGAAGC	CTTCGGAGAC	CCTGTCCCTC	ACCTGCGCTG	TGAATGGTGA	180
GCCCTTCAGT	GGTTATTCT	GGACCTGGAT	CCGCCAGNCC	CCCGGGAAGG	GCCTGGAGTG	240
GATTGGGCAA	ATCAATTATG	ATGGAACCAC	CAAGCACAAAC	CCCTCCCTCG	AG	292

## (2) INFORMATION FOR SEQ ID NO:475:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:475:

GAATTCGGCC	TTCATGGCCT	AAGGGTGGGC	TTTAATGGCA	GCTGGGGTAA	AAGGAAACAA	60
AAACAGTAAT	TCTGAAGAGC	ACAGGGAACA	GGCAGCCAGG	ACCAGCCTGG	CCCATTCCAG	120
GCCAGCTGAG	CTGAAATGCT	GATTCTGTCC	AGGGGGCTGC	TGTATGTGTA	GACTGGTGGC	180
AGTCTTGGGG	ACTGAGGCCT	CTTGAGAGA	AGGGAAGACT	GTGGGCTCAG	AAGTCCATGG	240
AGCTGTGGGC	CAGGTAGTCC	TTGCGACCGA	TGTTGCTGAC	CTGCTTGGTC	TGCATAGCCT	300
CGAG						304

## (2) INFORMATION FOR SEQ ID NO:476:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:476:

GAATTCGGCC	TTCATGGCCT	ACCAGCTCTC	TTCTAAAAGA	GAAGTGGGTG	GGCACACTGA	60
ACTGTTTGGT	GGCCCCAACC	ACAGGAAGCT	GCAATTCTCT	GGCTTAGGGT	GATACTTTTG	120
CCCTCCTTGT	GCCCTCTCT	GGACGCTCTG	CACCAACCCC	AGGCTACTGA	GCCACCTTCC	180
CTCCTCATGC	CTTCCCTGAG	CTTTGGTGCA	TCTCATCTGG	ACTATGGGTT	GTA CTGTGAC	240
CATCCCAACA	CCTCACCTC	TGTCTACAAG	GAAATGGGAG	GTGGAGCCTC	CTGGCTGAGA	300
AATTGTTTTG	CAAATGGATC	TCGAG				325

## (2) INFORMATION FOR SEQ ID NO:477:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:477:

GAATTCGGCC	TTCATGGCCT	AAGCTCATCA	ACGAGAAGCT	CATCAGAACC	AAGGGGCTGT	60
GGGGCCCCGT	CCATGAGCTG	GGCCGCAACC	AGCAGCGGCA	GGAGTGGGAG	TTCCACCAC	120

```

ACACCACCGA GGCCACCTGC AACCTGTGGT GTGTGTATGT GCATGAGACG GTCTTGGGCA 180
TTCCTCGAAG CCGTGCCAAT ATTGCTCTGT GGCCCCCAGT TCGGGAGAAG AGAGTCAGAA 240
TCTACCTGAG CAAGGGTCCC AATGTGAAAA ACTGGAATGC ATGGACCGCA CTGGAAACTC 300
GAG 303

```

## (2) INFORMATION FOR SEQ ID NO:478:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:478:

```

GAATTCGGCC TTCATGGCCT AGTTGTTTCTAG AATCCACACA GCTCTGAATT ACCAACGCTG 60
AATTTCCAAG ATACTGTAAA CACCCTGACC AACAGTCCAG CCATCCCATT GGAAACATCT 120
GCATGTCAGG ACATACCCAC TTCTGCCAAT GTACAAAATG CAGAGGGTAC CAAATGGGGA 180
GAGGAGGCAT TGAAAATGGA TCTTGACAAT AACTTTTATT CAACTGAGGT GTCAGTTTCT 240
TCCACTGAAA ATGCTGTCTG TTCTGACCTC CGGGCAGGGG ATGTACCTGT TTTATCTTTG 300
AGTAATAGCA GTGAGAATGC CGCCTCTGTG ATCAGCTCGA G 341

```

## (2) INFORMATION FOR SEQ ID NO:479:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:479:

```

GAATTCGGCC TTCATGGCCT AAGTTTGTGA AAAAAAATC TTTAAGTGA TTGTGAGTAG 60
ATTTTTTAA GGAGCATTTT TATAATATT TTCTGAATC CTTGCATATT TGACAGTGTC 120
TTTCTATTGT GTTTATGTGT GGCAGCAATT TACTTTATAT CAAAGTTTTT TGTTTTTGT 180
TTTGTTTTGT GAGACACAGT CTCACCTAT CACCCAGGCT GGAGTGCACT GGCACATCT 240
CGGCTTACTG CAGCCTTGAC CTCCGAGACT CAAGTGATCC TCCCACCTGC CTCGAG 296

```

## (2) INFORMATION FOR SEQ ID NO:480:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:480:

```

GAATTCGGCC TTCATGGCCT ACAGAGATGG ATTATCCTAC TTTACTTTTG GCTCTTCTTC 60
ATGTATACAG AGCTCTATGT GAAGAGGTGC TTTGGCATAC ATCAGTTCCC TTTGCCGAGA 120
ACATGTCTCT AGAATGTGTG TATCCATCAA TGGGCATCTT AACACAGGTG GAGTGGTTCA 180
AGATCGGGAC CCAGCAGGAT TCCATAGCCA TTTTCAGCCC TACTCATGGC ATGGTCATAA 240
GGAAGCCCTA TGCTGAGAGG GTTTACTTTT TGAATTCAAC GATGGCTTCC AATAACATGA 300

```

CTCTTTTCTT TCGGAATGCC TCTGAAGATG ATGTTGGCTA CTATTCCTGC TCTCTTTACA 360  
CTTACCCATG GGAACCTCGAG 380

## (2) INFORMATION FOR SEQ ID NO:481:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 296 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:481:

GAATTCGGCC TTCATGGCCT AAGTTTGGAA AAAAAAATC TTTAAGTGA TTGTGAGTAG 60  
 ATTTTTTTAA GGAGCATTTT TATAATATTT TTCCTGAATC CTTGCATATT TGACAGTGTC 120  
 TTTCTATTGT GTTTATGTGT GGCAGCAATT TACTTTATAT CAAAGTTTTT TGTTTTTGTT 180  
 TTTGTTTTGT GAGACACAGT CTCACCCTAT CACCCAGGCT GGAGTGCAC TGGCACTATCT 240  
 CGGCTTACTG CAGCCTTGAC CTCCAGACT CAAGTGATCC TCCACCTGC CTCGAG 296

## (2) INFORMATION FOR SEQ ID NO:482:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 380 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:482:

GAATTCGGCC TTCATGGCCT ACAGAGATGG ATTATCCTAC TTTACTTTTG GCTCTTCTTC 60  
 ATGTATACAG AGCTCTATGT GAAGAGGTGC TTTGGCATAC ATCAGTTCCC TTTGCCGAGA 120  
 ACATGTCTCT AGAATGTGTG TATCCATCAA TGGGCATCTT AACACAGGTG GAGTGGTTCA 180  
 AGATCGGGAC CCAGCAGGAT TCCATAGCCA TTTTCAGCCC TACTCATGGC ATGGTCATAA 240  
 GGAAGCCCTA TGCTGAGAGG GTTACTTTT TGAATTCAAC GATGGCTTCC AATAACATGA 300  
 CTCTTTTCTT TCGGAATGCC TCTGAAGATG ATGTTGGCTA CTATTCCTGC TCTCTTTACA 360  
 CTTACCCATG GGAACCTCGAG 380

## (2) INFORMATION FOR SEQ ID NO:483:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 252 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:483:

GAATTCGGCC TTCATGGCCT AGGCTGGACA GACTTTCTAA TGAACCCAAT GGTATGATG 60  
 ATGGTTCTTC CTTTATTGAT ATTTGTGCTT CTGCCTAAAG TGGTCAACAC AAGTGATCCT 120  
 GACATGAGAC GGGAAATGGA GCAGTCAATG AATATGCTGA ATTCCAACCA TGAGTTGCCT 180  
 GATGTTTCTG AGTTCATGAC AAGACTCTTC TCTTCAAAAT CATCTGGCAA ATCTAGCAAC 240  
 GGACAGCTCG AG 252

## (2) INFORMATION FOR SEQ ID NO:484:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:484:

```

GAATTCGGCC TTCATGGCCT ACTACATCAA GCACCAGAAC CGCCAGCTGC GCGCCCTGTT      60
GCTCAGCCAC CAGTTCAAGC GCCGGGAGGC CGACCAGACC CACGCACAGA ACTTCTCCTC      120
CGCCGTGAAG TCCCGGTCC AGGTCATCCT GCTCCGTGCC CTCGCCTTCC TGGCCTGCGC      180
CTTCCTACTG ACCACCGCGC TGTATGGGGC CAGCGGACAC TTCGCCCCAG GCACCACTGT      240
GCCCTGGCC CTGCCACCTG GTGCAATGG CTCAGCCACA CCGACAATG GCACCAGGCT      300
CGAG                                                                    304

```

## (2) INFORMATION FOR SEQ ID NO:485:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:485:

```

GAATTCGGCC TTCATGGCCT ACAGAGATGG ATTATCCTAC TTTACTTTTG GCTCTTCTTC      60
ATGTATACAG AGCTCTATGT GAAGAGGTGC TTTGGCATAAC ATCAGTTCCC TTTGCCGAGA      120
ACATGTCTCT AGAATGTGTG TATCCATCAA TGGGCATCTT AACACAGGTG GAGTGGTTCA      180
AGATCGGGAC CCAGCAGGAT TCCATAGCCA TTTTCAGCCC TACTCATGGC ATGGTCATAA      240
GGAAGCCCTA TGCTGAGAGG GTTTACTTTT TGAATTCAAC GATGGCTTCC AATAACATGA      300
CTCTTTTCTT TCGGAATGCC TCTGAAGATG ATGTTGGCTA CTATTCCTGC TCTCTTTACA      360
CTTACCCATG GGAAGTCGAG                                                                    380

```

## (2) INFORMATION FOR SEQ ID NO:486:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:486:

```

GAATTCGGCC TTCATGGCCT ACAGAGATGG ATTATCCTAC TTTACTTTTG GCTCTTCTTC      60
ATGTATACAG AGCTCTATGT GAAGAGGTGC TTTGGCATAAC ATCAGTTCCC TTTGCCGAGA      120
ACATGTCTCT AGAATGTGTG TATCCATCAA TGGGCATCTT AACACAGGTG GAGTGGTTCA      180
AGATCGGGAC CCAGCAGGAT TCCATAGCCA TTTTCAGCCC TACTCATGGC ATGGTCATAA      240
GGAAGCCCTA TGCTGAGAGG GTTTACTTTT TGAATTCAAC GATGGCTTCC AATAACATGA      300
CTCTTTTCTT TCGGAATGCC TCTGAAGATG ATGTTGGCTA CTATTCCTGC TCTCTTTACA      360
CTTACCCATG GGAAGTCGAG                                                                    380

```

## (2) INFORMATION FOR SEQ ID NO:487:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:487:

```

GAATTCGGCC TTCATGGCCT ACAGAGATGG ATTATCCTAC TTTACTTTTG GCTCTTCTTC      60
ATGTATACAG AGCTCTATGT GAAGAGGTGC TTTGGCATAAC ATCAGTTCCC TTTGCCGAGA      120
ACATGTCTCT AGAATGTGTG TATCCATCAA TGGGCATCTT AACACAGGTG GAGTGGTTCA      180
AGATCGGGAC CCAGCAGGAT TCCATAGCCA TTTTCAGCCC TACTCATGGC ATGGTCATAA      240
GGAAGCCCTA TGCTGAGAGG GTTTACTTTT TGAATTCAAC GATGGCTTCC AATAACATGA      300
CTCTTTTCTT TCGGAATGCC TCTGAAGATG ATGTTGGCTA CTATTCCTGC TCTCTTTACA      360
CTTACCCATG GGAACGAG

```

## (2) INFORMATION FOR SEQ ID NO:488:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:488:

```

GAATTCGGCC TTCATGGCCT ACAGAGATGG ATTATCCTAC TTTACTTTTG GCTCTTCTTC      60
ATGTATACAG AGCTCTATGT GAAGAGGTGC TTTGGCATAAC ATCAGTTCCC TTTGCCGAGA      120
ACATGTCTCT AGAATGTGTG TATCCATCAA TGGGCATCTT AACACAGGTG GAGTGGTTCA      180
AGATCGGGAC CCAGCAGGAT TCCATAGCCA TTTTCAGCCC TACTCATGGC ATGGTCATAA      240
GGAAGCCCTA TGCTGAGAGG GTTTACTTTT TGAATTCAAC GATGGCTTCC AATAACATGA      300
CTCTTTTCTT TCGGAATGCC TCTGAAGATG ATGTTGGCTA CTATTCCTGC TCTCTTTACA      360
CTTACCCATG GGAACGAG

```

## (2) INFORMATION FOR SEQ ID NO:489:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:489:

```

GAATTCGGCC TTCATGGCCT AGGTTTACAG GCATACCTCA TTTTATTGCA CTTCACTTTA      60
TTGTGCTTTG CAGATAATTG TGCTTTTAC AAATTGAAGG TTAGTGGCAA CCCTGTGTTG      120
AGCAAGTTCA TTGGCAACAT TTTTCCAACA GCATGTACTC ACTTGTCTCT ATGTCACATC      180
TTGATAATTT TCATATTTCC AACTTTTTC TATCATGAT GATGATTAGT GATCTTTGTT      240
ACTGTNGTAG TTGTTTGTG GGCACCACAC TGTATGCAGN AAAGCTCGAG      290

```

## (2) INFORMATION FOR SEQ ID NO:490:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 369 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:490:

```
GCTACCTTAA AAAATAGATA CTCCACTAGA GGCTGTGCTT AATTCAAATC CATGTGTGTG      60
CCTGCATTAC ATGTGTGAAC ACGTGTCTCT GTCGTGTGTG TCATGCACAT CTGTGTGTTG      120
CATAGCATAA GCCAAATGAA AATCATTGTG TCATGGGATT CATATGAGGA ACAAATTTAA      180
ATTTGAATAC AGTCAGATAA CTGCCACGCA GGGCATTGTT GGAACCATCC CCGAATGCCC      240
TGATGTGATT TCCCTCAGAA AATCCTTGTT ATTAGAGGAG AAGGTCTGGG CAGGGGCAGC      300
AGCATCTCAG ACATCAAGTC AACTTTATCA TCTACTACAT CAGCACTGAA GTCCAACGGC      360
ATCCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:491:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 307 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:491:

```
GAATTCGGCC TTCATGGCCT ATGCTTTTTT CTTTATCTT TGTAGTTGTT TAGGAGTGGG      60
GGGCCTCGCA GAACACCTAG TCCAGCCCAG TGCCCAGAGC AGGTGTGTCC CTTCATACT      120
TCAGTCCACT TTAAACAGC CTTCCTCCAC CCCCTTCTAT GGTAGCAGTT CTCCTCGGGG      180
TCTCCATGGA CACCCTGTGC CCCAAGCCGA TGGCCCCACC CAGCAGCATC AGCAGAGCTG      240
CCCCCTTCT CCGCAGAGCA GGCTCTCCTT TACGGGACTC TCCTCTTCCC TCCACCCCCC      300
CCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:492:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 275 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:492:

```
GGAATAAGAA GAGAAAGCCA AGGAAGACAA GGGCAACAA AAGTTGAGGC NGCTTCACAC      60
ACACAGATAC GGAGAANCCA GAAGTGCCAG AGTCAGCATT CTGGAAGAAA ATCATAGCAT      120
ATCAACAGAA ACTTCTAAAC TATTTTGCTC GCAACTTTTA CAACATGAGA ATGTTAGCCT      180
TATTTGTGCG ATTTGCTATC AATTTCATCT TGCTCTTTTA TAAGGTCTCC ACTTCTTCTG      240
TGTTTGAAGG AAAGGAGCTC CCCACGAGGC TCGAG
```

(2) INFORMATION FOR SEQ ID NO:493:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:493:

```

GCCTTGGGCC CTCGCAAAGT CTTGGAGAAG CAGTTTTACT TCCCTTCCTT CACTTAGACC      60
CCATTCTTTA GCATTTCCTC TGAAGCTCCC ACAAGACCCA AGAATGGCTG CTGCAGTGTC      120
TCCTCTTCAG TCAGGGACCC TGGTTGAGGT TTGTGTATTG TTCATTATTG CTCTGTTTTG      180
CAGTTGTTC AAGTTGGAAG ACTTGCCTGC GGAGCAGTGG AACCATGCCA CAGTCCGCAA      240
TGCCTTAAAG GNACTGCTCA AAGAGATGAA CCAGAGCACA TTAGCCAAAG AAACCTCGA      300
G                                          301

```

(2) INFORMATION FOR SEQ ID NO:494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:494:

```

GGAAGATGTC TACAGAAAAG GTAGACCAA AGGAGGAAGC TGGGGAAAAA AGAGTGTGCC      60
GAGACCAGAT CAAGGGACCG GACAAAGAGG AGGAACCACC AGCTGCTGCA TCCCATGGCC      120
AGGGGTGGCG TCCAGGTGGC AGAGCAGCTA GGAACGCAAG GCCTGAACCT GGGGCCAGAC      180
ACCCTGCTCT CCCGGCCATG GTCAACGACC CTCAGTACC TGCCTTACTG TGGGCCAGG      240
AGGTGGGCCA AGTCTTGGCA GGCCGTGCC GCAGGCTGCT GCTGCAGTTT GGGGTGCTCT      300
TCTGCACCAT CCTCCTTTTG CTCTGGGTGT CTGTCTTCCT CTATGGCTCC TTCTACTATT      360
CCTATATGCC GACAGTCAGC GCACTCGAG                                          389

```

(2) INFORMATION FOR SEQ ID NO:495:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:495:

```

GTGGCGATTG GTCCTGTCAT GGTTTATTCA GCCATGTGGT GGATGGCTAC TTGTCTTCTA      60
AGCCACTTGC CTTCTGATCG CTGGACTGAC TCTCTCGCCC TCTCTGGTG CAGTCCTCAG      120
GAGGCTCGGT CACTCTCTCC AAGASCACAG CCATCATCTC CCACGGTACC ACAGGCCTGG      180
TCACATGGGA TGCCGCCCTC TACCTTGCA AATGGGCCAT CGAGAACCCG GCAGCCTTCA      240
TTAACAGGTG ACCTCGGGGC ACAGGGCAGG GCACCGAGGC AGGCTTACCC TGGTGCAGTC      300
GAAAACACGG TCCCCTTTCC TCCCGCCAGG ACTGTCCTAG AGCTTGGCAG TGGTGCCGGC      360
CTCACAGGCC TTGCCATCTG CAAGANGTGC CGCCCCCGGG CATACATCTT CAGCGACCCT      420
CACAGCCNGG TCCTCGAG                                          438

```

(2) INFORMATION FOR SEQ ID NO:496:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:496:

GAATTCGGCC TTCATGGCCT AGGTAAAATT TGTATAACAA AAAATTAACC GTTTTAAACT	60
GAATAATTCA GTGAGATTTA GTGAATTCAC AATATTGTGC AACTGCCACC TCTTTCTACT	120
TCTAAACCAT TTTCCTCATA CCAAAAGTAA GCCCCGTACC TATGATGCAG TCCCTTCCCG	180
TTTCCTTCTC TCCTCAGTCC CTGGCAACCA TCACTCTGCT TTCTGTCTCT GTGGATTAC	240
TTATTCTAAT ATTTAATTC AGTGGAATC CCTGCCTCGA G	281

(2) INFORMATION FOR SEQ ID NO:497:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 570 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:497:

GAATTCGGCC TTCATGGCCT ACATTAGAG AGGCAGTCGG GATGGAGGGT CGAGTTGAAG	60
ACAGGGAGGG GTGAGGAACG AGCAGAGGCC AGTTGTTTGG CCACTTGAGG GAGTTTGGAC	120
TTGTCCCAGG GGCAGTAGGG AGCCGTGAAG GGCTTCAAGC CGGGGAGGAT CATGAACATT	180
TCCCCAGAGG AGCTCAAAAT GGAGTTGCCG GAGAGACAGC CCAGGTTCGT GGTTCACAGC	240
TACAAGTACG TGCATGACGA TGGCCGAGTG TCCTACCCTT TGTGTTTCAT CTTCTCCAGC	300
CCTGTGGGCT GCAAGCCGGA ACAACAGATG ATGTATGCAG GGAGTAAAAA CAGGCTGGTG	360
CAGACAGCAG AGCTCACAAA GGTGTTTCGAA ATCCGCACCA CTGATGACCT CACTGAGGCC	420
TGGCTCCAAG AAAAGTTGTC TTTCTTTCGT TGATCTCTGG GCTGGGGACT GAATTCCTGA	480
TGCTGAGTC CTCAAGGTGA CTGGGGACTT GGAACCCCTA GGACCTGAAC AACCAAGACT	540
TTAAATAAAT TTAAATATG AAAACTCGAG	570

(2) INFORMATION FOR SEQ ID NO:498:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 487 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:498:

GAATTCGGCC TTCATGGCCT AGGTGCATGC CATCAAATAC TCTAACGAGA CATTTTAAAT	60
GAAAGACTTA AACCAGATAG GCCACAATGA ACCAAATTAG AAATCTGAAC ATGTCACCAC	120
TTGCAGCATA AAGGAATATA AAAGGGCAGA GCAAAGTCTT TTTTCCTAAG GTGAATATTT	180
CTAAGGTAAG TATTCATTTG TAAAAGTTTT TTTTTCCTCAN CANGTCTGAA NNCTTTTAC	240
CANNNGNGA GNATTACAAC AAAACATCCC TNGGTTAAAA AAAAAAATA CCATCTTGCA	300
ATTGAGCACA CACCNGCAGC TGGTGTGCTC ATCCAAACCN ATCAGTAGGC TAAGAGNATT	360
TNAAATTCCA TACATATGAG TTAGGTATT AATGCCGATT ACACAGTACA CAGTACAGAG	420
GGAGTCCCT ATATCCACAC ACACACACAC CCCATCCAGC ATTTACACCN AAAGCCTTAC	480
CCTCGAG	487



## (2) INFORMATION FOR SEQ ID NO:499:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 271 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:499:

```
GAATTCGGCC TTCATGGCCT AACAAATCAA AGAAACTTTT TTCTGAACCA TTTGAAATTT      60
GCCAGCCTGA TGTCCCATCA CCCCCAAGT ATTTTAGCAT CTATGCAACA AAACATTTTC      120
TCTGACAAAA CCACATCAGA ACTCTCAAAT CAGGAAACAA ACATTGATAC ATGTCTATCA      180
ACTAATCCTG TCTTCAATGA CATTTTACCG ATTGTTCCAA TGATGTCAGC ATCACGGGTC      240
ACATTTAATA GTTGCCTCCT TCAGTCTCGA G                                     271
```

## (2) INFORMATION FOR SEQ ID NO:500:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:500:

```
GCACCTTCTGG ATGTTGGTTC TCTTTGTCAT TTTCAACAGT CTGCAGGGAC TTTATGTTTT      60
CATGGTTTAT TTCATTTTAC ACAACCAAAT GTGTTGCCCT ATGAAGGCCA GTTACACTGT      120
GGAAATGAAT GGGCATCCTG GACCCAGCAC AGCCTTTTTC ACGCCCGGGA GTGGAATGCC      180
TCCTGCTGGA GGGGAATCA GCAAGTCCAC CCAGAATCTC ATCGGTGCTA TGGAGGAGGT      240
GCCACCTGAC TGGGAGAGAG CATCCTTCCA ACAGGGCAGT CAGGCCAGCC CTGATTTAAA      300
GCCACGTCCA CTCGAG                                     316
```

## (2) INFORMATION FOR SEQ ID NO:501:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 269 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:501:

```
GACAAAGACC AGCAATGGAT CACTTGGAGT CCTTTATTGC TGAATGTGAT CGGAGAACTG      60
AGCTCGCCAA GAAGCGGCTG GCAGAAACAC AGGAGGAAAT CAGTGCGGAA GTTCTGCAA      120
AGGCAGGAAA AGTACATGAG TTAAATGAAG AAATAGGNAA ACTCCTTGCT AAAGCCGAAC      180
AGCTAGGGGC TGAAGGTAAT GTGGATGAAT CCCAGNAGAT TCTTATGGAA GTGGNAAAAG      240
TTCGTGCGGA GGAAAAAGGA GNACTCGAG                                     269
```

## (2) INFORMATION FOR SEQ ID NO:502:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 403 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:502:

```
GAATTCGGCC TTCATGGCCT ACTTGTCTCA CTCTGCATCA TCCCTTAGTC TACAACAGGC      60
CTTTTCTGAA CTTAGACGTG CCCAAATGAC AGAAGGACCC AACACAGCAC CTCCAAACTT      120
TAGTCATACA GGACCAACAT TTCCAGTAGT ACCTCCTTTC TTAAGTAGCA TTGCTGGAGT      180
CCCAACCACA GCAGCAGCCA CAGCACCAGT CCCTGCAACA AGCAGCCCTC CTAATGACAT      240
TTCCACATCA GTAATTCAGT CTGAGGTTAC AGTGCCCACT GAAGAGGGGA TTGCTGGAGT      300
TGCCACCAGC ACAGGTGTGG TAACTTCAGG TGGTCTCCCC ATACCACCTG TGTCTGAATC      360
ACCACTACTT TCCAGCGTAG TTTCAAGTAT CACAATACTC GAG                          403
```

(2) INFORMATION FOR SEQ ID NO:503:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 282 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:503:

```
GTTTGGATGA TTGGTGGCGT GTACGCAGCT GCTATGGCCT GGGCCATCAT CCCCCACTAT      60
GGGTGGAGTT TTCAGATGGG TTCTGCCTAC CAGTTCACA GCTGGAGGGT CTTGCTCCTC      120
GTCTGCGCCT TTCCTTCTGT GTTTGCCATT GGGGCTCTGA CCACGCAGCC TGAGAGCCCC      180
CGTTTCTTCC TAGAGAATGG AAAGCATGAT GAGGCCTGGA TGGTGCTGAA GCAGGTCCAT      240
GATACCAACA TCGGAGCCAA AGGACATCCT GAGCGACTCG AG                          282
```

(2) INFORMATION FOR SEQ ID NO:504:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 222 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:504:

```
GAATTCGGCC TTCATGGCCT ACTGAGAAAA AAAATCAAAT CTAATTTTAA AATGAAGGTA      60
TTTAAACCA TGGCACAAGG GAGCCTTATT TATGGAGCTG GTGGGAAGCC AGGATGTTTC      120
CAATCCGCTG CTCTTACAGG AGCCTGTGCC TCGCCAGTTC TGTGCTGCAG TGGGCAGCCA      180
ACTGAAGTGC ATGAGTCAAA TGCACGAAGC AGCAGACTCG AG                          222
```

(2) INFORMATION FOR SEQ ID NO:505:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 192 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:505:

```

GAATTCGGCC TTCATGCCCT AGTGGTGCAG TTTTTCAGGA TTGTAGAGAT GCTAACAAAT      60
TACAGGTTCT CTCATGCAAA CACTTTGCTA GGAATTATAT ATATCAAGTT TATATTTGGC      120
AATCAGGCTT TAGAAGCAGA AGGTCTAGCT ATCTCAAACCT ACCACCTACC TCCCTCACCA      180
AAGCCGCTCG AG                                         192

```

(2) INFORMATION FOR SEQ ID NO:506:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:506:

```

GAATTCGGCC TTCNTGGCNT AGTAAAATTG TTAAAGTTGA CAGGATCAGT TTTGGAAGAT      60
GCTTGGAAGG AAAAAGGAAA GATGGATATG GAAGAAATTA TTCAGAGAAT TGAANACGTT      120
GTCCTAGATG CAAACTGCAG TAGAGATGTA AGACAGATGC TCTTGAAGCT TGTAGAACTC      180
CGGTCAAGTA ACTGGGNCAG AGTCCANGCA ACTTCAACAT ATAGAGGNGC NACACCAGAA      240
AATGATCCTA ACTACTTTAT GNATGNACCC ACATTTTCATA CATCTGATGG TGTTCCTTTC      300
ACTGCAGCTG ATCCAGATTA CCANGAGAAA NTCCAAGAAN NACTTGAAAG AGANGATCCT      360
CGAG                                         364

```

(2) INFORMATION FOR SEQ ID NO:507:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:507:

```

GAATTCGGCC TCGATTGAA TTCTAGGACT TGACAGAATT CGAGTTATCC TTCTCAGAAC      60
ATGTGCAGAG TCTCTTTTGG CCTCACCATG TGGTCCTGTG CTCTTTCAGG TGGGAGTTTT      120
GGGGCCTCCA GGGCAGCAGG CACCACCTCC ATATCCCGGC CCACATCCAG CTGGACCCCC      180
TGTCATACAG CAGCCAACAA CACCCATGTT TGTAGCTCCC CCCCAAAGAC CCAGCGGCTT      240
CTTCACTCAG AGGCCTACCT GAAATACATT GAAGGACTCA GTGCGGAGTC CAACAGCATT      300
AGCAAGTGGG ATCAGAGCAA TCTCGAG                                         327

```

(2) INFORMATION FOR SEQ ID NO:508:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:508:

```

GAATTCAGTG AGTGGGCATG GCTGATCTTG TGCAAATTAA AAGTTATGGG GCATAAGAAT      60
AGCAAAAAGTT GAACTTCTTT TAAAAAGGAA AGTACCCTGA GAGCCAGTAT TGGTTGAGGC      120
TCTTCAGTAT GCCCAGGTTG GCAGCACTGA GAACCGCAGG AACGGCCTGT TGTACAAAA      180
AGGAGATTGA CTCAGCTGCC CTTGGTGCACTGCTGACTGACT ATGACTGCTG AGAGATTCCA      240
AGGACCCTTA ATGCCAGGGC TAACCTCTCC ATGTGCAGTG AGACCTCTGG AGGAAGTGTC      300
ATCCTCTGGC TTTGTGTGGT ACTCATTATG GTGCAGTGCG GGCATGAAAT GAAGACACAC      360
AAATAGGCTC GAG

```

## (2) INFORMATION FOR SEQ ID NO:509:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:509:

```

GAATTCGGCC TTCATGGCCT ACTCTTCCTG GCTCCTTCTC AGCCTTGTTG CTGTAAGTGC      60
TGCTCAGTCC ACCATTGAGG AACAGGCCAA GACATTTTGG GACAAGTTTA ACCACGAAGC      120
CGAAGACCTG TTCTATCAAA GTTCACITGCT TTCTTGGAAT TATAACACCA ATATTACTGA      180
AGAGAAATGTC CAAAACATGA ATAATGCTGG GGACAAATGG TCTGCCTTTT TAAAGGAACA      240
GTCCACACTT GCCCAAATGT ATCCACTACA AGAAATTCAG AATCTCACAG TCAAGCTTCA      300
GTGCAGGCTC GAG

```

## (2) INFORMATION FOR SEQ ID NO:510:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:510:

```

GAATTCGGCC TTCATGGCCT ACTTGAACAA TTTAAATATA GGAGAAGACT ATTTTTTAGA      60
AATGTTTTCC GTCGCCAAT TGTAAAGCT TTATAGCACT TTGCATATTT TGGAGAATGT      120
CAACTATATT TTTATCAGAG CTGATTGTTT CCAGTGGAAC AACAGTGCGG TAGACATCGC      180
CCACAAGGTT CTGCATACTC GAG

```

## (2) INFORMATION FOR SEQ ID NO:511:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:511:

```

GAATTCGGCC TTCATGGCCT ACGTGGTATT AAGGAGACAA TCTGAGGCAT TCCCACCACT      60
CAATTTGACA TGCGGTTGGC AAGGTTCTCT TTCCCTTCCC ACTTTAGATC GTGCCCTGTG      120

```

```

CCAGGTCAGA CCCGAAAGAT TCATAGGCAC ACTTACAGCC TTCATAGTCT CAGCCATAGT      180
CATCCTAGCA ACTGCTAGTG TGGCTGTAGC ATCTATTACT GAATCAGTAC AACAGCTGC      240
TTTTGTAGAT AATTGGGCA GAAATGTTTC TAATGAACTT CTCTTACAGC AAGGTATAGA      300
TCAAAAGATT CTTGCACATC TGCAAGCCCT CGAG                                  334

```

## (2) INFORMATION FOR SEQ ID NO:512:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 537 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:512:

```

GAATTCGGNC TTCATGGCCN AAAGCTCTNG AAGGAGTATT AGAGTACAGA GTCTGAGNCT      60
NTGANAAATG GTGGTCAGAA GCCNTCTTCA TCAGATANAT TTCTCAGATG TGCCCCCTTCC      120
GCGGCAGAGG NGGATATTCA TCTCCTAGTT CATGTTTCAGA AACATGTCAG TANGCAGATN      180
ANTCACTACC AGTATCTGCT TCTACTTTTC CTGCATGAGT CACTTATCCC TGCTTTTCAGA      240
GAACNTAAGG AAAGATGTAG AAGCTGTAAC TGGCAGTCCT GCTAGTCAGA CATCCATTG      300
TATTGGAATT TTACTTAGAA GTGCAGAACT GGCTCTTTTG CTCCATCCAG TGATCAAGC      360
AAATACTCTT AAGTCTCCTG TTTCTGAAAG TGTGAGCCCA GTGGTACCTG ANTATTTGCC      420
TACAGAAAAT GGGGATTTT TGNCTCAAA AAGAAAACAA ATTAGTAGGG ATATAAATAG      480
AATTAGAAGT GTAAGTGTTA ATCATATGTC AGACAACAGA TCTATGAGTA TCTCGAG      537

```

## (2) INFORMATION FOR SEQ ID NO:513:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:513:

```

GAATTCGGCC TTCATGGCCA AGGTGCTTAA TATTAAGAAA AAAAAAGTA TATCCAACCA      60
CAGATATACA GTTCTGCCTT TTTTCTCTT TTACCTAAAT ATACTCCATA AACAGTTTCC      120
ATGTTGTGTA ATATCTTCAT GTTCTACTT TTCAGTGATT GCTTAAATGT CCATTGGGCT      180
GATAGGTCAC AGTTCGCTAA CCCATCTCAT TGTGTTCAT TGGGATCTCC ACTTCCCTC      240
GAG                                  243

```

## (2) INFORMATION FOR SEQ ID NO:514:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:514:

```

GAATTCGGCC TTCATGGCCT AGTCTCAAAA AAAAAAAAAA GATTATCCAC AAATGCAGTG      60
GNCCCTGGGA CAAGCCCTTT AAAGGAGTCA TNGAGAATCG TCTGTTGCTC ACAGCATCAA      120

```

```

TCNGGTATTT AGTTCCTCAAG CTTGAGGATT CTAGTTTTGC TCAGAGGGTC GGGTTCAGTC      180
TCTAAAAGAC GCTCTGAAAG CAGACCAGGC TGTTCCTTTC GAGCTTTTCA GGTTAGATTTC      240
TCATGTGTGT ATCTTCCATC TACCACGATT ATTTGGCTAC CAGATGCCTT AGCAAGCTGA      300
ACAGTGAGCT CAGAAGTGCC ACCATCTATA GTAACATTCT CGAG                          344

```

## (2) INFORMATION FOR SEQ ID NO:515:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 302 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:515:

```

GAATTCGGCC TTCATGGCCT AAGAGTATCC GCTTACAGAA AAGACACTTC ATCACCTAGC      60
ACTGATTTAT GCAGCTTTGG TTTCATTGG GCTAAACTCT GAAGAACTGG ATGTAAAGCT      120
TATAATTGCC CCAGGAGTAG AAGCAACTGC CTTGATAATT CGACAAATTG CTGACCACAG      180
TTTAATGACC TCAAAGAGAG ATCCTCATGA ATGGTTGGAT AAATCCTGGC TTAAAGTTTC      240
ACCATCTGAG GAAGAAATGT ACTTACTTGA TTTTCCATGT ATTAACCCAA TCGTGGCTCG      300
AG                                          302

```

## (2) INFORMATION FOR SEQ ID NO:516:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:516:

```

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT AATCCATAAA      60
AGGCTTTTGA GATGTCTCTG CTGAAAATAA ATGGAGCTCT AGTAAATGTT AGAGTTTTTG      120
CTAGTAGAGT TTTGATGCTT TTTGTCTTGG TTCTACTACT GAGCTTGAC CTAGGATGCC      180
TTCTTATAGT GCCATTCAAC ATGCAAGTTT CTTTTTCTGG GGCTGTGTGT CCAGGTGACT      240
TTATGAGTTA GGCTTTGGCA AATGCCAGAC TTGTTTCATC TAACACTAGA ATGTAGGGAT      300
CCTGCATTCA GCATGACCCT CGAG                          324

```

## (2) INFORMATION FOR SEQ ID NO:517:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 435 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:517:

```

GAATTCGGCC TTCATGGCCT ATAGGCCANG AAGGCCGGCC TTCATGGCCT ATAGGCCATG      60
AAGGGTTGGT TGTGTTTTCC TAACAAATGAA TAAGACAGAA ACCCTTGATA GCTAAATTCA      120
TCTGCAGTCA AACTAAGTTT TGCAGTGTCT TTTAAGAGC CAGGCAATTC TACCACAAAA      180
TAAATATAT TTTTAAATC CACATTACTA TACCACTGAC AAGTCTTTAC TTCAGAACTC      240

```

ATCATTGAGA AATGTGTAGC TGCTTCCAGA GTGTGTCTAA TACTGTTGGA ACAGGCGTTT	300
CAGAAAAGAAA TGAGAGGCC AGTCTCAGTA ACTCCATGAA GGGTGCCGAG CTCCTCTGTT	360
GAGGATTGTT CTTGTGAGAG GCAATGTTCC TATCATTGTC CAATTGGCC TTTGTTATTC	420
CCACATTGGC TCGAG	435

## (2) INFORMATION FOR SEQ ID NO:518:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:518:

GAATTCGGCC TTCATGGCCT ACCAGGTTGG CCAGGCTGGT CTCGAACTCC TGACCTCAGG	60
TGATCTGCTC ACCTCGGCCT CTCAAAGTGT TGGGATTACA GGAGTGAGCC ACCGCACCGG	120
GCCAAAAAAT CCAATTCTTT AGAGATTAAA TAACCCTTCA GGATTATCAA AGGAAATAAT	180
TAGGGAAAGG TAGATGTTCT GTCCAGTAA GAGAAGAAAG TGGTCCAGAA ATTTTATCTC	240
CCATCAAATG ATCCATTTTA CTTAAGTATT AAACCAAGTG ACATTCTTCA GTTTAACTCT	300
GATAAATGAA TCATATTCCT CTTGAAAAT AACTTTTGTA TTTCTGCTC TAAAAAGAGA	360
ACCACCCCTC GAG	373

## (2) INFORMATION FOR SEQ ID NO:519:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:519:

GAATTCGGCC TTCATGGCCT AAACAATTAA TTGTGGGTGT CTGAGGGGGA AGGTCGCAGC	60
TTTGGGCAGC TTTGAGAAGC GGTACAAGAG TTCTGTGCCT GTGTGTCCAG CCCTGGAGCC	120
AGCCAGTGCA TTTATTTTAA GCTCTTAGAA GCAACTCCTT GGCCCAAGAA TGGGTGACCC	180
CTGAGATGGG TCCACGCATC TCTTCACT TCCTTCTCTC CGTGGGATAC TGGACTCGTG	240
CCTCTGCGCC CATTCTCTTC TCACGCATAT CCATGAGCTT TAATTTCATC TTCTGATCAC	300
GGTACGTCCA TAAAGCCAGT ATTACACTTA AATGAAGTAT TCTTTTGTGT AATCGTTTTT	360
TTTAGAAGGT AAACAATTT AATAAGCTA TCTCGAG	397

## (2) INFORMATION FOR SEQ ID NO:520:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:520:

GAATTCGGCC TTCATGGCCC ACATGAATCT NGTAATTTGT GTCCTACTTT TGTCCATTTG	60
GAAAAATAAT TGCATGACTA CAAACCAAAC CAATGGATCT TCTACTACAG GAGATAAAC	120

```

TGTTGAATCA ATGCAGACAA AATTGAACCTA CCTTAGAAGA AATCTACTCA TTTTAGTTGG 180
TATTATCATC ATGGTTTTTG TCITTATCTG TTTTGTAT CTCCATTATA ATTGTCTGAG 240
CGATGATGCG TCCAAAGCAG GAATGGTCAA GAAAAAAGGC ATAGCAGCCA AGTCATCTAA 300
AACATCATTC AGTGAAGCCA AGACAGCCTC TCAATGCAGT CCAGAAACAC AACCCATGCT 360
ATCTACTGCA GACAAGTCAT CTGATTCATC GAGTCCAGAA AGGGCATCCG CACAATCCAG 420
CACAGAAAAA TTAATCAGAC CCTCAAGTCT ACAAAGCCA TCCAACCTCG AG 472

```

## (2) INFORMATION FOR SEQ ID NO:521:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:521:

```

GAATTCGGCC TTCATGGCCT ACACCTCTTC TTAGGGCTGT TTTTAAAC ACAATGATAT 60
TCTAAGGAAC AAGAGTTTGG CTATGGACTT TTGTATACCC ATGCCTATCA TATTCGCTA 120
AATGTTTGAT TATATAGAGA CATTTCTTTG GAACTTTGAG CTGTGTGAAG ACAACACAAA 180
CCTGGCCATT CATGGCTGAC AGAAGTTTGG CCCTAACCTT GCTCAGGCC ACACAGATTG 240
TGTAATATTC TTGGATCTG GCTCTAGTCA GCAAAGTCTT GGTGTTGTAG GATACAGGTG 300
TCTTCATGCA TTCCATTTTA TACTCGAG 328

```

## (2) INFORMATION FOR SEQ ID NO:522:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:522:

```

GAATTCGGCC TTCATGGCCT AGAAAAAGAA AAAGTAGCTG ATGAAGATGA TGTGGACAAT 60
GAGGAGGCTG CACTGCTGCA TGAAGAGGCT ACCATGACTA TTGAAGAGCT GCTGACACGC 120
TACGGGCAGA ACTGTACAAA GGGCCCTCCC CACAGCAAAT CTGGAGGTGG GACAGGCGAG 180
GAACCAGGGT CCCAGGGCCT CAATGGGGAG GCAGGACCTG AGGACTCAAC TAGGGAACT 240
CCTTCACAAG AAAATGGCCC CACAGCCAAG GCCTACACAG GCTTTTCCTC CAACTCGGAA 300
CGTGGAATC GAG 313

```

## (2) INFORMATION FOR SEQ ID NO:523:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:523:

```

GAATTCGGCT TCATGGCCTA GCGTTGTGTG CATGCGAGCG CTCCTGCAGG CGTGTGCATG 60
GGGCCAGGTG TGCACGTGGA TGCCCGGTG AGTGTGTGTG CATGCACGTG TGTGCACGCA 120

```



TGTGCACATG	CCTCCAGCCC	CACCTTCCAA	CCCCTCAGTG	CCCCCAGGAC	AGGGGCCCCCT	180
CTTAGCTATC	AGGGTATGGC	CGGACCGGCC	CTTCCTGCCC	AGCANGTTGC	AAGCACTTGG	240
CCAGGCCGGC	CCTCCAGGNT	GCTGCTGCGT	GGGGGCCCCG	GTGCCCCCAG	GTCCATGCAG	300
ACTGGGGATT	CGGTGGGGAG	GGGCGCTTCT	AAGGAACCAA	ACTGACGCTC	ACTCTGGGCT	360
TCCCAAGCAC	CCTTAGCACG	GAGCCCCACC	CTAGCTCGAG			400

## (2) INFORMATION FOR SEQ ID NO:524:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:524:

GAATTCGGCC	TTCATGGCCT	ACCCACCGTG	TAGTCAACCC	CACCTCGTACT	GTAGCGAGAC	50
AAAAACATGC	CATTGTGAAG	AAGGGTACAC	TGAAGTCATG	TCTTCTAACA	GCACCCTTGA	120
GCAATGCACA	CTTATCCCCG	TGGTGGTATT	ACCCACCATG	GAGGACAAAA	GAGGAGATGT	180
GAAAACCACT	CGGGCTGTAC	ATCCAACCCA	ACCCTCCAGT	AACCCAGCAG	GACGGGGAAG	240
GACCTGGTTT	CTACAGCCAT	TTGGGCCAGA	TGGGAGACTA	AAGACCTGGG	TTTACGGTGT	300
AGCAGCTGGG	GCATTGTGT	TACTCATCTT	TATTGTCTCC	ATGATTTATC	TAGCTTGCAA	360
AAAGCCAAAG	AAACCCCCCT	GCCTCGAG				388

## (2) INFORMATION FOR SEQ ID NO:525:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:525:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTC	TAGACCTGCG	TCGACCGAAC	CGAGTTGTAC	60
ATTTTTTTTG	TGATGGGTTA	TTTTTTATTT	TAATTATTAT	TGTTGTTTTG	GTTTTTTTTT	120
GGTTGGTTTT	NGATTATGA	CAATNCCACT	CTTGGCCCCA	GTTGTCGTCC	TGTCACCTCC	180
TCCCCGTGCC	ATCACCCCTG	CTCCCAGACC	AGGCTCAGCA	ACACATTGAG	TCTTGGGTTC	240
CAGGAACCTT	GCCAACCTCA	ACCCTCCAGC	CCGTGCTCCA	CTGGCTATGG	CTCAGACCAA	300
GGGCTCCTCC	TCTCCNTCT	TGCCCTATGG	AACAGCCCGG	GTGCTCCAAG	GGGGCCAGGA	360
GGGCATGGCT	TGGCTCCCAA	GATAAGGGGT	CCGGGGCCAG	GACACCCAGG	CAAGGTGGCC	420
CCTCCCTGCC	TAGCCCCCTT	CCCCCACCCC	AAAGTCGAG			459

## (2) INFORMATION FOR SEQ ID NO:526:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:526:

```

GAATTCGGCC TTCATGGCCT ACAACCTGGA AAATTCTCTG ACTTAGAAAT TTAAACAAAA    60
CCCTCCCCTT TCATTGAATC TCCATTGTCT GGAGTTTGCT TGTTTTAATC TAGCCTGTTC    120
CTCCACTATG GGCTCCCTTT CAAACTATGC CCTGCTTCAA CTAACCCTTA CTGCTTTTTT    180
GACAATTCTA GTACAACCTC AGCACCTGCT TGCTCCAGTT TTCCGGACAC TATCTATCTT    240
GACTAATCAG TCTAATTGCT GGTTATGTGA ACATCTAGAT AATGCAGAAC AACCCGAACA    300
CCTCGAG                                         307

```

## (2) INFORMATION FOR SEQ ID NO:527:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 317 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:527:

```

GAATTCGGCC TTCATGGCCT ACCAATACTA AGCTTATTTT ATTGTAATAC AGTTATTGT    60
ACCACCTTAG AGCAATCTTT TGAAGAACAA GAAACACATA TTGAGCCACC ACGCCGAGCC    120
TTTTTTCAGT TTATTTTAA TCTTTTGCTG TTCATTGGCT CATTCTGTGT ATAAGCATGT    180
TAAATTTACC CAAATATGAA AATAGCTCC CCTTGGCCCT GAAGCTCCTCT ACAAGCAACT    240
ACCTCATGAT TTTATCTCT TATCCTCAA TTCTTTGGAA TATAATTAT ACTTGTTTCA    300
TCCCTACCAC CCTCGAG                                         317

```

## (2) INFORMATION FOR SEQ ID NO:528:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 405 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:528:

```

GAATTCGGCC TTCATGGCCT ACAGCAGTGT GCTTTCATCC AGTTTGCCAC ACGGCAGGCT    60
GCAGAAAGTGG CTGTGAGAAG TCCTTTAATA AGTNGATTGT AAATGGCCGC AGACTGTATG    120
TGAAATGGGG AAGATCCCAG GCAGCCAGAG GAAAAGAAAA AGAGAAGGAT GGNACTACAG    180
ACTCTGGGAT CAAACTAGAA CCTGTTCCAG GATTGCCAGG AGCTCTTCCT CTCCTCCTG    240
CAGCAGAAGA AGAAGCCTCT GCCAACTACT TCAACTTGCC CCAAGTGGT CCTCCAGCTG    300
TGGTGAACAT TGATNTGCCA CCGCCCCNTG GCATTGCTNC ACCCCCACCC CCAGNTTTTG    360
GGCCACACAT GTTNCACCCA ATGGGACCAC CCCCTNNNAC TCGAG                                         405

```

## (2) INFORMATION FOR SEQ ID NO:529:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 283 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:529:

```

GAATTCGGCC TTCATGGCCT AAGAAACCAA ATTAGCAGAC GGATAGAATA TAAAGCAAGA    60

```

GGCAATACTT ATAGTGTAAT AAGAACTTG CTAGACCCCA TCCAAATTAC TCAGTCTACT	120
GTTGGTTGAT AGAATTACTT TAGGAAGAGT ACGTTTTTGC CTTGGAAATA CACTGGAAGT	180
GGTACCAAAC AAATCTAATA AAATGATGTT AAAGAGATTT GCAGTAATTT TTATCAACTT	240
TCAGTTTGCA AACTTTTATA AAGATATGAA CGGGACACTC GAG	283

## (2) INFORMATION FOR SEQ ID NO:530:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:530:

GAATTCGGCC TTCATGGCCT TTCTATAAAT GAGTTCTTTA TAAGAAGCTT GTATCATTCT	50
CACAAATTAA AAATAATAAT ATTTTAGCAA GCTATTTTTT AAATATAATT TAAGCCCACA	120
CTTCCACATT TGGGGTAAGT GATAATTTTT TCCTCTGAAA GACAACAAAT ACTAACACAG	180
GCCCAGACTT GGCTTTTGTG AGTCAATTAG TGATCCGAAG GTGAGTGGTA TTAAACGTA	240
TGATAGGGT AAGATTTGAT TTATTTTACA TATATATCTT CTGGTATCTG TGTGTGTGTG	300
TGTGTGGTGT GAAGCTCGAG	320

## (2) INFORMATION FOR SEQ ID NO:531:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 435 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:531:

GAATTCGGCT TCATGGCTTG GGGGTGACAG TTAATATATN CGGTCATTTT AGATTGCTTC	60
CACTAATATT GGTTTATCCA TATTATAAAA TATTTTAGTG AGTATAAAAT TGTCTGCATT	120
CATAAAGATG CATAAAATTA ACTACAGAAC CAGCTTGAGT AATGCTTTTC TCTTCTTTTC	180
TTCTTGTCAT TCAGATATTA TCTTTATACA TTGTTTTAGA GTATACATCT ATCAAAATGC	240
AACATTGTTG AAGGATATGT AATTATACA GCAAACGTGT AATGGATAAA AATGTGCAAA	300
AAACATCCTT AAAGTATTGT ATTGAACNA AAACAATCTT AAACCACATA ATCTGAAAAA	360
AAGGGGTACA TATTTTACCA AATATACTAA TCCATACAAG ACTGCTTGAG AAAAAGAATA	420
TGCCACCTAC TCGAG	435

## (2) INFORMATION FOR SEQ ID NO:532:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 339 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:532:

GAATTCGGCC TTCATGGCCT AAGCCATCAG ATTGAAATTA ATTTAGACAG GAAGAATCTA	60
TATAAATTG ATGCATAGCA AACTCTGACA TAATTTGGTT TATTTTGAAG TCTGGCATAT	120

```

TTTTATCATCAC TTTTATTTT ACGGGTAAAT CATAATATAT CATATTTTCA ATAAAAGTAT 180
TTTCTTAAAA ATCTGCCATT TGCTTCACAG ATTTTAAATC TTCTAACAGA AAAAGAAGTA 240
AATATTGTTT TGCCAACACA GTCCATTGTT CCAAGAACTT TTGTGCTTAA ACCAGGAATG 300
GTTCTGTTTT TGGGTGCTAT AGGCCGCATA GCCCTCGAG 339

```

## (2) INFORMATION FOR SEQ ID NO:533:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:533:

```

GAATTCGGCC TTCATGGCCT AATGTGCTCC AGGAGGCGCT GGGGGATGGT GACCTCCCAA 60
GGCGGGCAGA NGAATTCTGC CGTCAGGGTC GCCTGCTGCT GAGCCTGGGG GATGAGGCGG 120
CGGCCGCAGG GTCTGGATCC CCTGTGCCGT CGCCTCTTCC TTTTTCGACG CCTCCGCGGC 180
CGCCTGAGGA GCGGAGCTAG CCGGGAGTTA CACCGCCACC GCCAGGATGG ATAGAATGAC 240
AGAAGATGCT CTTGCTTGA ATCTGTTGAA GCGGAGCTTG GACCCAGCAG ATGAGCGAGA 300
TGATGTCCTG GCAAAGCGAC TCAAAATGGA GGGGCATGAG GCCATGGAAC GTCTGAAAAA 360
GTTGGCATTG CTCNAAAGGA AGGANTTGGC AAATCTTGAG GTGCCACATG ANTACCCAC 420
CNAACAGGAT GGCAGTGGTG TCAAGGGCCA TGAAGAAAAA CTTAACGGGA ACAACTCGAG 480

```

## (2) INFORMATION FOR SEQ ID NO:534:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:534:

```

GAATTCGGCC TTCATGGCCT ATATGTATTT TTAATCTATG ATGGTTTATG TGAATAGGAT 60
TTTCTCAGTT GTCAGCCTGG GCGACAGAGC GATACTCCAT CTAAAAAAA GNAAAAAAA 120
GAGGTGACTA GGCCATGAAG GCTCTGTCCT CACAGATGGA TTAATGCCAT TGTGTGGGA 180
GTGGTTTTCT CATTGAAGGA TGAGCTTGAG CTTGGCCCCC TTCCTTCTCC CGCCTCATTC 240
CCCTCTATGT NGCCCCTATG ATGCCTAANG CCATGTTATG ATGTGGCAA AAGGCCCTCG 300
CCAGATGCCA GCCCCTTGAC CNTGGAATTC CCAGCATCNA GAACTGTGGA CCNAATGNAT 360
GTTTTTTCCT TATAAANTAA CCNGCCACNG GTATTTTGT AAAGCNGCAC CNAGCAGACT 420
CGAG 424

```

## (2) INFORMATION FOR SEQ ID NO:535:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:535:

```

GAATTCGGCC TTCATGGCCT ACGTTGACTT AATCAGAGGG TCAACATTG CCAAAGCAAA    60
ACCTGAAATT CCATGGACAT CTCTGACTCG GAAGGGGCTT GTTCGAGTTG TATTTTTC    120
ATTGTTGAGC AATTGGTGA TTCAGGTTAC CTCTTAAAGA ATCTTTGTTT GGCTGTTACT    180
ACTTTATTTC ATGCAAGTTA TAGCAATTGT CTTATATTG ATGATGCCTA TTGTGAACAT    240
AAGTGAAGTA CTGGACCCT TGTGCCTTAT GCTACTCATG GGAAGTGTCC ACTGTENAAT    300
TGTGTCTACT CAGATAACAA GACNTCAGG AAACCTCGAG    340

```

## (2) INFORMATION FOR SEQ ID NO:536:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 446 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:536:

```

GAATTCGGCC TTCATGGCCT AGGCGCTCGC TGAGGCAAAA GGAGGCGCTC GGCCCGCGGC    60
CTGACAGGGA CTTAGCCCGC AGAGATCGAC CCCGCGCGCG TGACCCACACA CCCACCCACT    120
CATCCATCTA TCCACTCCCT GCGCCGCTC CTCCCACCCT GAGCAGAGCC GCCGAGGATG    180
ATAAACACCC AGGACAGTAT TTTGCCTTTG AGTAACTGTC CCCAGCTCCA GTGCTGCAGG    240
CACATTGTTT CAGGGCCTCT GTGGTGCTCC TGATGCCCTT CACCCACTGT CGAAGATCCC    300
CGGTGGGCGA GGGGGCGGCA GGGATCCTT TCTCTCAGCT CTAATATATA AGGACGAGAA    360
GCTCACTGTG ACCCAGGACC TCCCTGTGAA TGATGGAAAA CCTCACATCG TCCACTTCCA    420
GTATGAGGTC ACCGAGGGTA CTCGAG    446

```

## (2) INFORMATION FOR SEQ ID NO:537:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 353 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:537:

```

GGCAAATTAC ATCACCAAAT CAGCATATTC TCCACTGGAA AGGAGAGGCC CACATAGCCA    60
AATTATAATC TGCAGGTTTC TGAGCCAGTG TTAATCTGA ACAGAGAAAA GATTTTTC    120
TCAATTGGCA AATTTTAATG ACATCACTCA TTGATACCCC AAAATCTCCA GTTCTTACCA    180
AGCTGGCCT TGCCAGTGG TTCCTCTGTT CCCTCAACAA TGTTCATGG NATCTAACAA    240
CTTCCTACC CACTAACCTT CTCAGCTTTC ATGGTGAACC AAGCCTCTC TGTCGCACTA    300
ACCTTCCCAG CTTTCATGGT GAACCAAGCC TCCTCTGTCC CGCTATTCTC GAG    353

```

## (2) INFORMATION FOR SEQ ID NO:538:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 230 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:538:

```

GAATTCGGCC TTCATGGCCT AAGAAGGAGN AGCAAGCGGA TTTCAGAGAG GTTGTTCCTC      60
AGAAAAAAT GGTATTCTTCT TTGAACATCAT GCCTGAGCTT TATTTGTTTA TTGTTATGCC      120
ACTGGATTGG GACAGCATCA CCTCTGAATC TTGAAGACCC TAATGTGTGT AGCCACTGGG      180
AAAGCTACTC AGTGACTGTG CAAGAGTCAT ACCCAGATCC CTTACTCGAG      230

```

## (2) INFORMATION FOR SEQ ID NO:539:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:539:

```

NGAACCAGA GATCCCCATA GATGGAACAG AATTATCCCA CTACCGTCAG CGTGCCCTCC      60
TGCAATCACA GCCAGTTCGC CGGACGCCTC TCCTCCACAA TTTCTGCAC ATGCTGTCTC      120
CCCGCTCTTC TGGCATCCAG GTGGGAGAGC AAAGCACAGT GCAAGATTCT GNTACCCCTT      180
CACCCCCACC GCCTCCCCCT CAGCCCTCCA CGGAGCGCCC CAGGACTTCC GCTTACATCA      240
GGCTCCGACA GCGGGTCAGT TACCCACAG CTGAGTGCTG CCAGCACCTT GGGATCCTGT      300
GCCTTTGCAG CCGTGCTCTT GGCACTCGAG      330

```

## (2) INFORMATION FOR SEQ ID NO:540:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:540:

```

GAATTCGGCC TTCATGGCCT ACTCCGACTT TCGTCTTGA TTAATGAAA CATTCCTGGC      60
AAATGCTTTC GCTCTGGTCC GTCTTGCGCC GGTCCAAGAA TTTCACCTAG TTACCCTCTA      120
GAATTATTGC ATTGGGGCCA GGTGGTGTCT AGTACAGTTT TTTACTTTGG AGAATTTATT      180
GAAATTTTCT TTGGCTGAGA ATGCCTTCAG TGTTTGTGGT TATTCCTTGG ATACTTGCAA      240
ATCGATTGTA TTTTCTCTGG GACACGGGGT TTCAGATAGA TCAGTTAAAT GAAGCTTGAT      300
TATATCGTAT TTCAGTCGC ATGCCATGTG TCTTGCTGTG TGGACTGTCA GGTCTCAAGA      360
GACGGGCTTG GGTTCCTTG TGTGGCTGCT GCCTTGCCCC TTCCCGATC CACACTCGAG      420

```

## (2) INFORMATION FOR SEQ ID NO:541:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:541:

```

GTGGGCAAAG AAATGAAGTA CATTAGGAG GCCTTTTTTT TCCTCCAATG GCTGTAGAT      60
TGTGTATTGC AACCAGAGT TGTCAGCTC CTGATCCTAA TCCAAGCTGG GACTGTGGT      120
ACAGTGTGGC CAGCTGCCTT GCCAGCTGCC TTACCAGGCA GGTCTCGCAT CTGCCATTGT      180

```

CATCCCATTTG GAATCAAGTT GCAAGCCAGT GAACTTGCTG GGGTGTGCCC AGGTCAGAAC	240
AGTTACAGCT TAAAAGCCTT TGCTGCCCTT TTTCAGATCC TGTTCCTGGG AGAGTCTCCC	300
ACACTAAGTT CAGTGTGGGT ACCAGCTGTG GTGAGGGTGT GCTGCCACTG CAGCTGCTGT	360
CTGGGCATCT GTGTAGGGC CAATACTTCA AGAAGTGTGA GTCATTGTGA AGTACTGTGA	420
GGCAGCTGGG AAATAACAGC TGTGAACAGA GAACAACCTG AG	462

## (2) INFORMATION FOR SEQ ID NO:542:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 347 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:542:

GAATTCGGCC TTCATGGCCT ATGGGAGATA GGGGACTTAA TTATTTTGTG GGTITTTTCT	60
TTTTTAGGTC TTAGGAAGGT CTTTGTCCA TAGGTATCTG TATAATACAA TTTTATTAGG	120
TGTAATAGAG ACAGTTTTGT GGAAACAGAA TGCTGACACT GATTAAATTT AAGGTGTATA	180
TATGTTTGT CTTTGAGATG ATCTGTATGC TACATGTAGG TGTACATTGT AATTTTCTGG	240
CTTGTAATTT TTTGTATCAT ACTCTGTTTC GGAATTTTGC AAATGCCTAT GACCAGCCTA	300
TGACATCTGA ACCATACCAA CTGACCTTAG AAACAACGAC ACTCGAG	347

## (2) INFORMATION FOR SEQ ID NO:543:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 346 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:543:

GAATTCGGCC GCCTAGCAAA AGTGAAAAA TAAATAAAC AAGCCACAGA TTGGGACAAA	60
ATATTGTGA AGGATATATC TGATTAAGAA GTTATATCCA GAATATATGA AGAATTTTCA	120
AAACTAAAGA AAACAATTCA TTTTITTAAT TGGGCAAAAG ATTTAAACAA ATATTTTACT	180
AAAGAAGATA TCCAGATAGC AAATAAACAC ATGATATTCA CCGAAATTAT TAATTAGGAA	240
AATGCAAAAT AAGATGAATA TCATTATATA CCTACTAGAA TGGCTATATT TTTAAAGTTT	300
GACACTGCCA ATTACTGGTA AAGATGCAAA TCAGCGGAAG CTCGAG	346

## (2) INFORMATION FOR SEQ ID NO:544:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 399 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:544:

GAATTCGGCC TTCATGGCCT ACTTCTTCC TACATTAGTG GCATACTCTG AATGACCTAG	60
TGAACAGACT GAGAAGAGGC CTCTGAATTG CAGAGTCTCG TCTGTAGGAG AAGGTTTCAGG	120
AGAGTATTGA ATTTTAGGGA CTAGAATCCA TCTTACCTAT GCTGTTGCAA TCGCATGCTG	180

```

ACTGGAAGTG TGGGAAAGAG ACTTACAAGT AAGGACATGG GTTTGTTTTG TTTTTGTTT      240
TTTGTGACAG AGTGAGACCC TGTCTCGNAA AAGGAAAAAA AGTAATAGAA CATTAAATAC      300
AGTATCACAC CATTATGGT TAAAAAGNA AAAAGACAAG ACACTATATG AAGTGAGTGT      360
CTTTTAAAGT TAAAAAATT AAATGAAAAC AAACTCGAG                                399

```

## (2) INFORMATION FOR SEQ ID NO:545:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 367 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:545:

```

GAATTCGGCC GCCTCCATCT CCCTGGCCAT GTTCTTCTTG AAGACCCCTGA CAGTGGCTTC      60
TTCTTTGTGG CAGCTGGCCA ACAGCCAGAC CCTGACAGCC AGCCCCAAG CACCTGGGTC      120
CCCAGAGGAT TCTGAGGGTG TCCCCCTCAT CAGCCTGCCC CGCGTGCCAC AGGGAGGGAG      180
TCAGCCTGGG CCCAGCCGGG GATTAAAGTCT CATGTCCAGT CAGGGCAGTG TGGACTCAGA      240
CCACCTAGGT TATGATGGTG GCAGCAGTGG CTCAGACAGT GAGGGTCCCA ATGACACCCT      300
TGGTGAGAAG GCCCCCTTCA CATTGCGGAC TCCACCTGGG CCAGCACCTC CACAGACTTC      360
ACTCGAG                                367

```

## (2) INFORMATION FOR SEQ ID NO:546:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 455 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:546:

```

GAATTCGGCC AAAGAGGCCT AACCGCGGNC GCTCTACAAC TAGTGGATCC CCCGGGCTGC      60
AGGAATTGCG TATCAAGCTT AATTAAGAAT TCGGCCAAAG AGGCCTAAGC GAGAAGAGTC      120
CCCGCTCGT GCCCTACCAC TACTTTGAGA AGGGCCGGCT AGATGAGTGT CAGATGTACC      180
GTTTGCAATG GCAGGCTCCA AGGAGCGCCC ATCGCTTCAT TACCAGAAAC CCTGTGTTCT      240
CCGCTGGGC CAAGAAGCGA CCCATCGTGT TCGCCACCC GTCTGGAGG GCCAAGTAGT      300
TCCTTTGCC AGTGACTGCC AGGCCTCAGC CAGGCCTGTG ACCCATTTCA GGCCAACAG      360
GCTCTAATGT GAGCATTAT GACTCACCTT CTACCTGACA CCAGGTAGAA CATGAAGTCT      420
CTATTACCCA AACTGGGTA CACTCGGAGG TCGAG                                455

```

## (2) INFORMATION FOR SEQ ID NO:547:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 401 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:547:

```

GAATTCGGCC TTCATGGCCT AGTCATTTTG TCAGCTTTCA CACAAGAATC TTTGATCCTA      60

```



```

TTGTAATAGT TAATAAGGAA GTTCTTCTCT TGCTCAAAGA AGTCATCTAC CTCCTTAACT 120
CCAGTAAAAA GGACTTCATC AGCACTTTTC ACCACACTTT TGAAGAAGCC ACCAAACATT 180
TCTTTAGTAT TTTTCCGCCT AACACTTAGA TCCTGATCAT ATTCCAGGAA AACATGAAAG 240
TTGCGATCTT TACTGAGAAC AGGGTGAGAA GAAAGCCGCT GAAGAAAGAC TTCATGGGAG 300
GACACAGTCT TCTTAAACAC AGCGAGATAC TCAGCTTCCA GTTCTTGTTT CATCTGGGCT 360
TATTATTCCA CCTTCTCCA GTTCTGTCAT CTTCTCTCGA G 401

```

## (2) INFORMATION FOR SEQ ID NO:548:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:548:

```

GAATTCGGCC TTCATGGCCT ACAAGCCCCT CTTACCTCTC TGGATGCTTT CTTTAACACT 60
AACTCACCAC TGTGCTTCCC TGCAGACACC CAGAGCTCAG GACTGGGCAA GGCCCAGGGA 120
TTCTCACCCC TTCCCCAGCT GGGAGGAGCT TGCTGCCTG GCCACAGACA GTGTATCTTC 180
TAATTGGCTA AGTGGGCCTT GCCCAGAGTC CAGCTGTGTG GCTTTTATCA TGCATGACAA 240
ACCCCTGGCT TTCCTGCCAG ATGGTAGGAC ATGGACCTTG ACCTGGGAAA GCCATTACTC 300
TTGTGTCTGC TACTGCCCTC CCACAGTCAC CCCAATATTA CAAGCACTGC CCCATTGGCT 360
CGAG 364

```

## (2) INFORMATION FOR SEQ ID NO:549:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:549:

```

GAATTCGGCC AAAGAGGCCT ATGCTTTTCT TTGCAGCACT TAGCACAAAT AGTAATTTT 60
ATTTTACTTT TATAGATGTA TTTTATGTCC CTCCACCAGA CTGTATACTC CATGAGGACA 120
AGGATATTGA TGTTTATGTT AACTCTTGTA CACTCAGTGC CTGGCACCAT GCCTGACCCA 180
GAAGAGGGAC TCGAG 195

```

## (2) INFORMATION FOR SEQ ID NO:550:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:550:

```

GAATTCGGCC AAAGAGGCCT AACATAATGC GCTAGCAGAC TTGGGAATTA GGGGCAGAAT 60
GCTGCTCTAA ATTCAGGAAA TCATGGCACG GTTTCATATT GAACATGGTC TATTCCTACC 120
ACTAGCGCTT TCCTGGCTGA TTTCTTCTCC AGCTGGAGAC TTCTTTCTGG TTTTCCAATT 180

```

TATGCTCCAC	CCTCACCCCA	ACCCACCCAT	AAACCACTGG	CTGCCGGAAG	CAGTATCTTT	240
CATAGTGGTG	AGTTCTGGAT	TTTCAGCAGT	AATGGCCGAG	AGTCAGGGAC	CAGATGAGTG	300
TGTGTGAGCT	GGTGAGAAAA	GGTAGATTCC	CTCGA			335

## (2) INFORMATION FOR SEQ ID NO:551:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 662 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:551:

GCCAAACATG	TCTCACCNAA	NNCCAAATGT	CCCCNGGGGG	AGCAAAATCT	CCCCTGGACA	60
ACTGTGGAAT	CACTGTNNGG	AAGTGTTTAC	TTGAGTGGTT	TNCTGGCCTG	GGCCTCATAC	120
TCTGAATTTT	TGAAGTAAAT	GGTCTGGGGG	TGCTGGGGGT	GGAGAGCAGA	GCACTGGTAT	180
TTTTAGGAGA	TCCCCCTGTC	ATTCTAAAGC	ATATCCAGGG	TTAAGCACCA	TTAATCTGAN	240
GATCTNCNGT	CTGATCTGCG	GGCCCCCTTT	CATCTANGTG	CAGTATTTTT	CTCTATGCTT	300
TTTAAATATA	TGAAAGTTTC	TNGAACTCCA	TCTGGACTTG	AAATATAGCC	TGCCACACAG	360
TTAGCAAATA	TAGCAAGAAT	AACAAGTGTT	CTAAATGGAT	TTTAAATTTA	TTATGGCAAT	420
AGTACATTCC	AANAGGGTGG	CATTTTTTAA	AATGAGATT	TTCTTTTGGG	CCTAAGATTA	480
CAGTCACATG	GTCCAAATT	CAGAGGGTTC	AAAAGGACAC	AGAAAAGCCT	GCTTCCCACT	540
TGNGCCCACT	GGCCTCCCT	TTTTTCGCAT	AAATGGCAGT	ATATAGCTTT	GTCTGTTCTT	600
TGTTTNNNGA	GCTTAATACC	TTAGAGACAG	ATTTTNGTAT	ATCTGTACCT	ACAGAACTCG	660
AG						662

## (2) INFORMATION FOR SEQ ID NO:552:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:552:

GCTGTTTTAA	AAGAGTTGGG	GGAAGAGGTA	GAAATGAATC	TTTTGGTTTA	GTTTTTTAAT	60
TCTCTAAGGA	CAACATTGGG	GAAGTGAGCT	TTAGAGTTAT	ATTTGCAGTA	TTTATTTTTA	120
TCATGAAATA	TTCAAGTCTA	GGCCCTTGGT	GAATTGAGGC	CTGGTGAGTA	TTTCTGCTTT	180
CCCCCTGGAG	AGATTGAGAT	GGTTTCTGAT	TGGGAGCTTT	AATTCTGTGG	GCATTGTGG	240
GACTTACCAA	AGAGGTATCT	AGAGTTCCTT	TAAAACCCCC	GGCCTGTCCC	TGCCACAAAA	300
CTCGAG						306

## (2) INFORMATION FOR SEQ ID NO:553:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 290 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:553:

```

GTCAAAAGAG GAGCTAGGAC CAGATCTCTA AGTCTTACNG TCCAGGTCAA AAAACAAGTA      60
CTTTCCTATC TGGTTATACA GAAATCTGGA AACAGTCACT CCCAGCCTCA CAATTAAAAA      120
AACTTGGACA TACAGAAAGT TCATAGTTTT CCTTGAATC ATGATAGTGC TGAGATTTC      180
CGGCAACCAA CTGGCCAGAG TACTCCAGAG TCAAAGACAC TGTAAGGAGA GTTGACATNT      240
GAGCATTAGA CAAGACACAG ATGGTANGAG TTAAGCTAGG GTTACTCGAG      290

```

## (2) INFORMATION FOR SEQ ID NO:554:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 370 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:554:

```

GAATTCGGCC TTCATGGCCT ACTCTATGGG GATGAGGTAG AGGAGAGCAA GATATTTTCGG      60
CAGCAGGGAA AAGGGTAGAA CAGAATAGGG TGACACAATT TACACTTGAT ACTGCATTAA      120
CATCTGGTAG AGTGTCTAGG GCAAAGGTTA GCCAAAATAT AGCTGGATGG TTGAGGGATT      180
TAGAAGGAGT TGGGATGAAT CCATAGTCTC AATGAATGGA GAAAAAGTAA CTCAGGAAAG      240
TAAATGCTGG TGACTTATCA GCGGGTGGCT GGTGATGTTT GGTTCGGATT GTGAAAGCTG      300
CTTAGACCAA GATGGGCTGA GGAAGGGGA GGAGAGTGAG CATGTAGAGG TTGAGGCACT      360
TGGTCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:555:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 304 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:555:

```

GAATTCGGCC AAAGAGGCCT AATTGCCAAT CAACAACCTT TCCTAATCCA CCTTGATCCT      60
CAATCATAAT ACTCRAAAAC TGCCAAAAAC AAAATCTTCC TGACAAAAAT ACAGGCCAAA      120
CTTCCTCATC TGCTTTCCAG GTCTTCTGTA ATCTTATCCC AGCTTATTTA CAGTCCTCCA      180
TTTACTAAGA AAACCCAAAA TAATCTTTTC CTGCCCCAAA TTCATGTTCT TCCCTTTTCT      240
TTTGTTTATA CTACCATAA TATCTAGAAA TGATACTCAA ATATTCATCC TCAGCACCTC      300
CGAG

```

## (2) INFORMATION FOR SEQ ID NO:556:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 285 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:556:

```

GAATTCGGCC TTCATGGCCT AGAGGGGAAA GCATATCACT AGGACTGTGA CCCCTGTGCC      60
TACCCATCTT ACTCTTACC TCTTAGGAAA GTTTCACGTG GTTACTTGG GACTTCTGGA      120

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CTAGCTGCCG TTTGCAACAG TGGACTTACC AGTTTGCCAC TACTCTGCTA CTTTCTACT	180
GGTGACACACA CCTTAGTAAG GCAGTTTGAT TACTAAATGC AGCTGTCTCC AGAAATGGAA	240
TGATGCTATA GGCCACTTAC TAAATGAATG ATCAGGAGTC TCGAG	285

## (2) INFORMATION FOR SEQ ID NO:557:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 409 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:557:

GAATTCGGCC TTCATGGCCT AGCTGGATCT GCCCACTGTG CACTCCATCA TCAGCAAAAT	60
GATCATTAAAT GAGGAGCTGA TGGCCTCCCT GGACCAGCCA ACACAGACAG TGGTGATGCA	120
CCGCACTGAG CCCACTGCCC AGCAGAACCT GGCTCTGCAG CTGGCCGAGA AGCTGGGCAG	180
CCTGGTGGAG AACAAAGAAC GGGTGTGTTGA CCACAAGCAG GGCACCTACG GGGGCTACTT	240
CCGAGACCAG AAGGACGGCT ACCGCAAAAA CGAGGGCTAC ATGCGCCGCG GTGGCTACCG	300
CCAGCAGCAG TCTCAGACGG CTTACTGAGC TCTCCACTCT GTTTCCCGCC TGGGCCATCC	360
AACCTTGAAG TCCTAAACCA CACCTCAGTC ACTAAAGGTC TGTCTCGAG	409

## (2) INFORMATION FOR SEQ ID NO:558:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 287 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:558:

GAATTCGGCC TTCATGGCCT AGGAAAAAGA GATATAAAAA AAAGAAAAAG AGGNGGTACC	60
AGCCACACAG AAGACCACGG GGAAGACCAG AAGGAAGGAG AAATCCTATA TACTCACTAA	120
TAGATAAGAA GAAACAATTT AGAAGCAGAG GATCTGGCTT CCCATTTTGA GAATCAGAGA	180
ATGAAAAAAA CGCACCTTGG AGAAAAATTT TAACGTTTGA GCAAGCTGTT GCAAGAGGAT	240
TTTTTAATA TATTGAAAA CTGAAGTATG AACACCACCG TCTCGAG	287

## (2) INFORMATION FOR SEQ ID NO:559:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 380 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:559:

GAATTCGGCC TTCATGGCCT ACTTCTCAA AATAGATGTA CTTGACTACT CTTTCTTGA	60
TTCTTCTGGG AGTAACCATC TCTTTGGAGA TGGTTGTTAG TAAGGTTATA AAAATAACCT	120
TACTGAGGAA CTCCCATGCA ATCCTCTGAA AATAATAAAA ATTTCCTTAT TTCAAGAACT	180
CTTATTTAAC AAAGTAATTG TTAGGGTTGA ATACTCTAGG GGCAAATGAT TTATTGTGCC	240
TTTTGTAAAA GTCAACACTT GGCAGGTGTG TGTTTGACAC TGGCTGATGC TGGGCTTATT	300

TCTCTAAGAG TATGGTAATT CTAGTAAAGT AAAGAAAATT GTTTATCAGA TATTAGGAAC 360  
TGTACATAGG CCCCCTCGAG 380

## (2) INFORMATION FOR SEQ ID NO:560:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 208 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:560:

GAATTCGGCC TTCATGGCCT AAAATTGTTC ACGAGGGATT ACGTGGTTTA CTGTCTCTGT 60  
GTCCAGATAG CTTTATATTC TTTAAGATT AGCTCGGATT CTTATCCTAT TTTTGCCATT 120  
AACTTTTATT ATGATTTTGG CAAAGCCATT TTGTTTGCTT ACATTTTTC A TTTTAATGT 180  
GGTGTCTGGC CTCCCCCA CACTCGAG 208

## (2) INFORMATION FOR SEQ ID NO:561:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 505 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:561:

GAATTCGGCC TTCATGGCCT ACAAACANTT TTTACTGNGT TATAAATAAA AACAGCGACA 60  
CATCCTAAAT GTGCACCTGT GCCGTGGCTG AGCCGCTGCA GTGAGGGCTA GTGTGCAACA 120  
CCGATGCTGT GCTGGACGCG TGCCAGCCG GGTCCCCTGA CAGGAGGCAN CCGGGGCCGG 180  
TGCGTGTGTT TGCATGTTGC AGTCATGGGG CGGGGNCGGC AGANGCCTGT GTGATNGTNG 240  
CGTCCCTGGA AAAAGAAGNN GGGNAGGCCC CTCNCACNTG TANCCAGCC TGCAANGGG 300  
GNGTTNTGTG GGTCTTCCC CGTGCATATG CGTGTGATNT CACCCATCCC GTGTGGGTGC 360  
GCAGGAGGGG CCGAGGGAGG AGGGTGCTGG AGGGCGGAAG TTACCTCTGA CTGGAGGAGA 420  
NACCCGGCCC GTGTNACCAG CANAGGTGTG NTCGTTCTAA AACTGGGAAA AATTTGTCT 480  
TAATTTTAA CACAGTCCCC TCGAG 505

## (2) INFORMATION FOR SEQ ID NO:562:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 351 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:562:

GAATTCGGCC TTCATTTAAA AGATAAGTTA GAAAAGTCAA AGCGAGAACG GCATAACGAG 60  
ATGGAGGAGG CAGTAGGTAC AATAAAGAT AAATACGAAC GAGAAAGAGC GATGCTGTTT 120  
GATGAAAACA AGAAGCTAAC TGCTGAAAAT GAAAAGCTCT GTTCCTTTGT GGATAAACTC 180  
ACAGCTCAAA ATAGACAGCT GGAGGATGAG CTGCAGGATC TGGCAGCCAA GAAGGAGTCA 240  
GTGGCCCACT GGAAGCTCA GATTGCGGAA ATCATTCACT GGGTCAGTGA CGAGAAAGAT 300

GCCCCGGGTT ACCTTCAAGC TCTTGCTTCC NAGATGACCG AAGAGCTCGA G

351

(2) INFORMATION FOR SEQ ID NO:563:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 353 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:563:

GAATTCGGCC TTCATGGCCT ACAAACCTGT CCATGGCATG AAAGACTTGG ACCGCCATCT	60
CAGAAATCCAC ACGGGAGACA AACCGCACAA GTGTGAGTTC TGTGACAAGT GCTTCAGCCG	120
GAAGGACAAC CTGACCATGC ACATGCGGTG CCACACCACT GTGAAGCCAC ACAAGTGTCA	180
CCTGTGTGAC TACGCTGCCG TGGACAGCAG TAGCCTCAAG AAGCACCTGC GGATCCACTC	240
TGATGAGCGG CCGTACAAAT GCCAGCTCTG CCCCTATGCC AGCCGCAACT CCAGCCAGCT	300
CACCGTCCAC CTGCGATCTC ACACGGGTGA GTCCCTGACC AGGGGTCCTC GAG	353

(2) INFORMATION FOR SEQ ID NO:564:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 416 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:564:

GAATTCGGCC TTCATGGCCT ATAGAATTCC TAGACTTTAC AGACTAATAG TTTGACATCT	60
ATCTCTGGCA AAATTCGAAA CTTAAACATT AAACAAGGGA AAATGAGGGG TGGAGGNAAA	120
GACTGCGGAT TTCTAGGAAC TAACAATTG CTAAGNATCA TTCATTTTAA AACTAATGTT	180
ATTTACTTTT GTGGTAGATC AGGGNATATG CAAGATCTTT ACTTTTCAGC AAGACATTTT	240
TCTCATAATG TCCTTATGGA GAAGACTGCT CTATGGACTA GNATAGTTTG ATAAGAAAGG	300
GCTGAGTCCA GCGNATTCAT TAGTTCAAGC AAAATCTACT GGAGGCCAAC TAGATTTCAC	360
GCCATTATCG TACTTGGCAC TTTCNATACT TTGAATTTTA ACCACCACAC CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:565:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 465 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:565:

GAATTCGGCC TTCATGGCCT AAGACGGGGT TTCACCATGT TAGCCAGGAT GGTCTCGATC	60
TCCTGACCTC GTGATCCTCC CGCCTCAGCC TTCCGAAGTG CTGGGATTAC AGGCGTGAAC	120
CACCACGCCC AGCCATATAT CAGGAAGTTG AGCATCCATG GAGTTTGTTG TCCAAGGGAG	180
GTCCTGGAAC CAATCCGCCA TGGATACTGA GGGATGACTA TAATATGAAC CTTGTATGTA	240
TGTAATTTAC CATTTTCTAG TTAGCCACAT TAAAAAGGA AAAAGAAACA GGTGAAAAAT	300
ATTTAAAAAA TACGTTAACA CAATATATCC AGAACATGAT TTCACATTGA AATCAATATA	360

AAAATTACTG AAATAGTTTA CAGTCTGGTG TGCATTTTAG ACTTAAAGCA TATCCCTTTG 420  
GGCATGGTGG CCCATGCCTG TAGTCCTAGC CACTGAAGGC TCGAG 465

## (2) INFORMATION FOR SEQ ID NO:566:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 357 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:566:

GAATTCGGCC TTCATGGCCT ACAGCGAGAA GGAGTGTATG AGTGTGAGTG TGTGTGCATG 60  
 GAAGTTGGGC ACTGGGCGTC TGANTCCTTC CCCACCCAAG AGAGGAAGGA CCCCTCACCA 120  
 CCCCCACTGG CGAGACAGTT TACTTTGCCG ACTTGCCATG TTTTGGCCAA AACCAAGATT 180  
 TTGAAGGAAA TGAGTGGCCA GCGCCAGGGC CCAGGCCATG TGGCCTGCCC AGCCTCAATG 240  
 TNACTTGGTG GCGGGGTGGG GTGGGGTGG GCAGCAGCAT CCCAGCCTTG AGATGCTTCA 300  
 CTTTCCTTCT CTGTAACCAG ACTTTGAAAA ATTGTTTCGTT TCATCAGGCA TCTCGAG 357

## (2) INFORMATION FOR SEQ ID NO:567:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 336 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:567:

GAATTCGGCC TTCATGGCCT ATCTGCACTG AATTAGAACA AAATTAGGA GACTTCTAAT 60  
 TTGAAGCCAG AGGTGCTGAC TTTTGAGTCT TTGGAGATTG CCTGTGGAA ATATTCCTGT 120  
 TGAGGGCCAA TGTCCCAATG GGCTCTGAAG ATGAGAAGGA TCCCTGCCCT ATGTGGATGC 180  
 CACTGGATCT GGAATCATTT CTGTGGCTCA GATTTCTGTA CACATTCTGC CAGGACAGGA 240  
 GCAGCCGTAT TGGGAAAAGA AGGGGGACAA TAACTAGAAA CGAACTAAGA TGTGGCCCTT 300  
 GCTTTTGTAC TTTTAATTTA ATGGGAAACA CTCGAG 336

## (2) INFORMATION FOR SEQ ID NO:568:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 481 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:568:

GAATTCGGCC TTCATGGNCT ACCTGGACCT TGGGTGGCAG GCCTGGGGCC TTCAGTCTTT 60  
 AATTCAGGAG GTAGCCAGTC GCTGGAATA AGANTGAAT TCAGCTGTTG TTGCCATAGC 120  
 TGGAGGGAAG AGGGAAAGGA GCGCTGCAGG GGAGCAGAGA CCTCACCCCTT CCTCTGCCGA 180  
 CATCAGGCTG CCGGTGCTGG ACGGGGCCCT GGCAACCGTG GCAGGAGTGG TGATGTCCGA 240  
 TGATGGTAAC AAGGGCTTCC TGAGGACCCC GAGCTGTCTT AAGGGCTCTT TACCTGGAGT 300  
 AAGTATCCCC TTAAATCCTC CCAACAACAC TGTGAAATTG ATTCTGTTGT TATTCCCAT 360

TCACCGATGA GGAACCCACA GCCCAGAGAT GTTAAGTAAC CTGCCCAAGC CTCCCTCTGA 420  
 GCATGGCAGA GGGAGGGTCC GAATGCCGAA AGTCTGGCTT CAGTGCCCCC ATCCTCTCGA 480  
 G 491

## (2) INFORMATION FOR SEQ ID NO:569:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 472 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:569:

GAATTCGGCC TTCATGGCCT ACTCATCATT TGGAAAATAC TTGATGGCAG GAGAACTTGC 60  
 TTAAAACTAA AGGTGGAGAA AGAGTAACT TCCAGGACAA CCCATTATAG CTCACTTCTT 120  
 ACCAACAAAG CAGTTTTTAT ACAGCACCTT AGGACTCATT TCTAATGTCA ACCCAGATGG 180  
 CCAGTAAAGG CAAGGGAAGA GGCTAAGTGA CTCACAAAAA TCTCTGATAT TGAGGTCTAA 240  
 TGTGAAGGCT ATAGATAGGA ATTCCCCACA AACTTCTAAT GAGGACTAAT ATGAACAGCA 300  
 AATTGGAGAA GACACCAAGG ACCTAATTTT AGTTTCACTA GCCGTGGGAC CTTAGAAAAA 360  
 AGACCATTTG CTCTGGACTT TTGTTTCCCA AGCCATAAAA TGTGGAAGAA TCTTCACAAT 420  
 TTCAAGTTGG TCATGTATAT TTCCCTTTTA CAGAGAAAGC TGAAGCCTCG AG 472

## (2) INFORMATION FOR SEQ ID NO:570:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 487 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:570:

GAATTCGGCC TTCATGGCCT AGAAAGGATC AAGCTGATCA GAAGCGGGAG CTGCATTGAG 60  
 GGAAAAATAT GGCCAGAGAA GGCCTCACTG AGGAGGTGAC GTTGGTGATG CTGGAGCTCA 120  
 GATCTGAAGG GGAAGAAGGA AGCAGCCACA TATAGAAGTG AGGGAGGGGG CTTAGGCAAA 180  
 AGGAACAGCA AGCGGAGAGG CCCTGAGAAA GGAAAGGCTT GGCTCGCTCA CCTGCAAGGG 240  
 CCCCCTGGCT TGACATAGTG AGAAAGGTGT GAAGATGAAT TTGGAGAAAG GCAGGGACAG 300  
 ACCACAGGAG ACCTTAGATT TGATTCTGAG GGCGATGGGA TCCCTTGAGA GGATGCTGAG 360  
 CAGGGGAGAG ATGTGATCTC CTTTTCATTC TAACATGATC GCTGCAGCTG CTGCTGGAGA 420  
 ATGGTTGCAG GAGCGAGAGT AGAGACTGGG AAGGTCTGTG CATCCTCTAA GCNACAGGCG 480  
 TCTCGAG 487

## (2) INFORMATION FOR SEQ ID NO:571:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:571:



GAATTCGGCC	TTCATGGCCT	AGAATAAATT	GTGATACAAA	AAAAAAAAAA	AAAAAAGAGT	60
GTACACTATG	AATGGGTTGG	TCGTTTCTT	CCTGGCTTTT	TTTCTTTTTA	TTCAGAGTTA	120
GGAAATACTT	TTATTTTTTA	AAGGAAAATT	CATCATAAAT	TTGCGCTGGT	ACTTTTGTAC	180
ACAGGATTCT	TTCAGTGAAG	CTTTGCCGGC	CGGAAATCTC	CATGGCCGGC	CTTGCCTCTG	240
CCCGGTCTTC	ACTGAAGCCT	GCTGGGCTCT	CTCCACCTAC	TTGGTCCATC	AGTCTGTGCT	300
TGGCTCATCC	TAGCAACCTG	GATCCCGCAC	CCGCTATGGC	ACCGTGCTTG	GCTGGAGGCT	360
GGTCCGAGCG	TCCGTGACTA	GCTTCCACCT	TCGGCGCCAG	CTTTTGGACA	AGGGGAACGC	420
AGTGGCACCC	AAAAACTCGG	AGACATGAGA	CTCGAG			456

## (2) INFORMATION FOR SEQ ID NO:572:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 399 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:572:

GAATTCTAGA	CCTGCCTCGA	GATGCCCGAC	TACTACAAAC	CTCAGTACCT	GCTGGACTTT	60
GAAGACCGCC	TTCCCAGCTC	GGTCCACGGC	TCAGACAGTC	TGTCCCTCAA	CTCTTTCAAC	120
TCCGTCACTT	CCACCAACCT	GGAGTGGGAT	GACAGTGCGA	TTGCCCCATC	TAGTGAGGAT	180
GGAGACCTCA	CAGACACGGT	CAGTGGTCCC	CGCTCCACAG	CCTCCGACCT	GACCAGCAGC	240
AAGGCCCTCA	CCAGGAGCCC	CACCCAGCGC	CAGAACCCCT	TCAACGAGGA	GCCGGCAGAG	300
ACTGTGTCTT	CCTCTGACAC	CACCCCGCTG	CACACCACCT	CTCAGGAGAA	GGAGGAGGCC	360
CAGGCCCTGG	ACCCGCCGGA	TGCCTGCACG	GAGCTCGAG			399

## (2) INFORMATION FOR SEQ ID NO:573:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 256 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:573:

GAATTCGGCC	TTCATGGCCT	AGATTGGGT	TAGTGGTTTT	CTTTTAGCAT	GTTGAAAATG	60
TCACCCAACT	GTTTTCTGGG	TTCCTTTGAA	AAGCCAGCTG	TCTGTCTGTC	TGGTTGTCAT	120
GTCTGAAGGT	GATGTGTCTT	TACCTCTGGC	TGCTTTAAGT	ATCTTTTGCC	TTTTTCCCTT	180
TTGTGAATGT	TTTGTCTGAA	GTGTAACATA	TACACAAAAG	AGTGTGCAAA	TCATCAATGC	240
TTGATGGATT	CTCGAG					256

## (2) INFORMATION FOR SEQ ID NO:574:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 199 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:574:

GAATTCGGCT TCATGGCCTA GAATCATGCA TTTTCTTTTC TTTTCTTTT TCCCCTGGC	60
TTTGCTATG CTGGTGGCAT CCAGGCATT GCTTTGTCTC CCTGATTATG CCCAGGATTC	120
AAGGTCTTCT TATTTGTGGG GAGGCAGGCT GCCCACTGGG ACGGTTTTA GTGTGTTTNC	180
CATTCTGGC TCCCTCGAG	199

## (2) INFORMATION FOR SEQ ID NO:575:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 349 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:575:

GAATTCGGCC TTCATGJCCT AGGATTGAA GAAGTTGGGA AAGCATTATG TAGATTAATA	60
TACTGGTTGG TTCCCTATCT ATGTGGAAGG TCATATTAGC TGCAATTATT TAATTGCTG	120
TGTTATTTTG TGTATATAA CACAAATATA TTTGTATATT AACCTTCATTT TACTGTCAT	180
TTTTCTGTT GTATACAAA TGAACAAATC TTGTAATTAT TTTCAAATAT AGAAGTATAT	240
ACATTAGATG GATTTCAGG ATTTTGTAAG NAAATCTTAA ATCAGTGTTC TGAGTTATTT	300
AATTTTAAA TTAATCTACA AATTATGCAC NACAACTAG CAACTCGAG	349

## (2) INFORMATION FOR SEQ ID NO:576:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 494 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:576:

GAATTCGGCC TTCATGGCCT ACAAATTTTG CTCACCTTCA TTAATCAGTT GCTCAGATAG	60
AAGGAAATGA CATCTGGTTC TGTCTCTTC TACATCTTAA TTTTGGAAA ATATTTTCT	120
CATGGGGTGG ACAGGATGTC AAGTGCTCCC TTGGCTATTT CCCCTGTGGG AACATCACAA	180
AGTGCTTGCC TCAGCTCCTG CACTGTAACG GTGTGGACGA CTGCGGGAAT CAGGCCGATG	240
AGGACAACTG TGGAGACAAC AATGGATGGT CTCTGCAATT TGACAAATAT TTTGCCAGTT	300
ACTACAAAT GACTTCCCAA TATCCTTTTG AGGCAGAAAC ACCTGAATGT TTGGTCGGTT	360
CTGTGCCAGT GCAATGTCTT TGCCAAGGTC TGGAGCTTGA CTGTGATGAA ACCAATTAC	420
GAGCTGTTCC ATCGGTTTCT TCAAATGTGA CTGCAATGTC ACTTCAGTGG AACTTAATAA	480
GAAAGCCCCCT CGAG	494

## (2) INFORMATION FOR SEQ ID NO:577:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 229 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:577:

GAATTCGGCC TTCATGGCCT AGGCACGTTA AATTTTAAAA GTTANAAAAA GAAAGATGCT	60
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TTTTGCAGCA GTTCCAGGGT AAACGGCCCC ATGCAACACA AACCCCTCGGG AAGGGCATT 120
CAGCCTTGCA GTGGCCACG GAGTGCACCA CGCGGCGCTC AGCCCCCAG GGAAGCGATG 180
CCCCACATCG GGCCAGAAAC AAAAGGGGGT GAGATAAAGC ATGCTCGAG 229

```

## (2) INFORMATION FOR SEQ ID NO:578:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:578:

```

GAATTCGGCC TTCATGGCCT AAGGAGTTTG AGATATATTT AGGAAGCAGA GCCTATAAGA 60
CATGCTGATC ACTTGCATAC ATAACTGAG AGAACTAGAG GTATAGAAGA CTCTAGAAC 120
TTGGAGAAAT TGGATGAATG GATGTATTGT TATTGATGTA ATGAACCTTA GAGGTGGGTG 180
GGATCAGAAA GATCTATTTG CTTTCAAAGG AAATGGGGAG TGGACAGGTA TGTGGGCAGC 240
ATAAGAACTG GAATAACAGC ACATCTCATT CATGCCTTAA AAGAACGTGA AACTTTGAAT 300
GTACAGCAAT GGTATTCAAT AGGTATGACT TTGCCCTTAA AGGACATAGA CACCAGGAT 360
GTTGCTAAAT ATCCTCCAAT GCACAACACA ACCCCTCGAG 400

```

## (2) INFORMATION FOR SEQ ID NO:579:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:579:

```

GAATTCGGCC TTCATGGCCT ACGAGGACGA GGACGTCAAG GATAACTGGG ATGACGATGA 60
TGATGAAAAA AAAGAGGAAG CAGAAGTAAA ACCAGAGGTA AAAATTTCAG AAAAGAAAAA 120
AATAGCAGAG AAGATAAAG AGAAAGAACG GCAACAGAAG AAAAGGCAAG AAGAAATTAA 180
AAAGAGGTGA GAAGAACCCG AAGAACCCTA AGTGCTAACA CCAGAAGAAC AATTAGCAGA 240
TAACTGCGG CTAAGAAAT TACAGGAAGA GTCAGACCTC GAATTAGCAA AGGAAACTTT 300
TGGTGTTAAT CTCGAG 316

```

## (2) INFORMATION FOR SEQ ID NO:580:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 325 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:580:

```

GAATTCGGCC TTCATGGCCT AAGCGAGGCC TGAGCCTCTG CGTCTAGGAT CAAATGGTT 60
TCAATCCCAG AATACTATGA AGGCAAGAAC GTCCTCCTCA CAGGAGCTAC CGGTTTTCTA 120
GGGAAGGTGC TTCTGAAAA GTTGCTGAGG TCTTGCTCTA AGGTGAATC AGTATATGTT 180
TTGGTGAGGC AGAAAGCTGG ACAGACACCA CAAGAGCGAG TGAAGAAGT CCTTAGTGGC 240

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AAGCTTTTTC ACAGATTGAG AGATGAAAAT CCAGATTTTA GAGAGNAAAT TATAGCAATC 300  
AACAGCGAAC TCACCCAGAC TCGAG 325

## (2) INFORMATION FOR SEQ ID NO:581:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 353 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:581:

GAATTCGNCC TTCATGNCCT ANGAGAAGNA CCCAGACCCC CCCAAGAAGG AGGAGGANCN 60  
 CCNNNGAGNC NCTNCTCCAG NCGGANGAGG AGCGCAAGGC CAAGTNCGCC AAGATNGAGG 120  
 CGGAGCNCGA GGCCNTGNNC CAGGGCATCC GAGACAAGTA CGGCATCAAG AAGAAGGAGG 180  
 AGCGCGAGGC CGAGACCCAG ACGCCGCCAA GAAGGAGGAG GAGCGGCAGG AGGCGCTGCG 240  
 CCAGGCGGAG GAGGAGCGCA AGGCCAAGTA CGCCAAGATG GAGGCGGAGC GCGAGGCCGT 300  
 GCGCCAGGCG ATCCGAGACA AGTACGGCAT CAAGAAGAAG AAGAACGCTC GAG 353

## (2) INFORMATION FOR SEQ ID NO:582:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 426 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:582:

GARWWYKCSS YYTTNANGGC TAGTCAGTGG CAGGGCCACC CAGAAGCCCC GCAGATGACG 60  
 GAGCTGAGAA CAGGGAATTN ACCTNCACGT GTTGCCATTT CCTCANTGGA AAGTCCTTGG 120  
 GAGGTGGCTG GGCTCAGCCT GAGCTCAGGG CTTTTCGGTG GGGTTGGGGC AGGGGCAGGG 180  
 CGGGCNNTTG CAGGTGGCAC AGGCTTCATC AAGGCAGGAC ACGGGNTTCA TCAAGGCAGG 240  
 AGCCACAGCG CCCGAGCCCT GGCAGGGGAG GTAAGGCCCA GGATGGGGCA GGGCCGTGTG 300  
 CTCCTGGNAC GGACATCCTT NTCTGCCAGA GACCTGCTCC CCAAGCCCTG TCCCTCCCAA 360  
 TCCCCAGGCA GCCCACTCTG CCCTCCATAG ATGAATCTAA TATTGAATTT CTAGACCTGC 420  
 CTCGAG 426

## (2) INFORMATION FOR SEQ ID NO:583:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 368 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:583:

GAATTCGGCC TTCATGGCCT AAGAAAAGAA AGTAAGATTA TCTCCAGCCA AAATGTCAAC 60  
 CAAGAATTCT ACAGATCTAG TTGAATATGT TGACAAGAGT CATGCTTTTC TCCCCATCAT 120  
 TCCAAACACC CAGAGAGGTC AGCTAGAAGA CAGACTGAAC AACCAGGCAC GTACCATAGC 180  
 TTTCTTCTT GAACAAGCCT TCCGCATCAA GGAGGACATC TCTGCTTGCC TGCAGGGGAC 240

```

CCATGGCTTT CGAAAAGAGG AATCGCTCGC CAGGAAGTTA CTGGAAAGCC ACATCCAGAC   300
CATCACCAGC ATCGTCAAAA AACTCAGCCA AAATATTGAG ATTTTAGAAG ACCAAATAAG   360
AGCTCGAG                                     368

```

## (2) INFORMATION FOR SEQ ID NO:584:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 437 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:584:

```

GGAATTCGGC CAAAGAGGCC TAAACGACTC TTTGCCCTGT TTCTTCTTGG CTTCCTTGC   60
GTAACAAGGA TGAAGGAGGT GGTTTAACTT TATTTTGTCT CTTTAACTTT TTAAAGTCTA   120
AAGTAAGTGC TTGAATCGGG TGGGTTTTCA TTTTITGCT TTCTCACCCC TCAGGTTGGC   180
CCCTAACTTG GCCTCTCACC CTCGTGTCAG CTGTTAGACA CTGACTCAGT GGCTCAGAAT   240
ATGAAAGGCT CAGGAAGTAG CATGCTGGCC CCACCTCCCT GTCCCCATAC CTTAGCAGAG   300
CAGCTGCCCA GCAGGGCCTC CTTCTCTTTC CTAAGAGTTT ACTCCATCCA TGGTGGGTGT   360
CTTGGTAGGC CCGAGATACG AGAGGGAGTG CTGCTGTTAC AAGAATTTAC AGTTGTTCTC   420
TTCGGCACAA GCTCGAG                                     437

```

## (2) INFORMATION FOR SEQ ID NO:585:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 565 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:585:

```

GAATTCGGCC AAAGAGGCCT AGTGCAGAGT TGCAAGCAAG TTTATCAGAG ATACGCCATG   60
AAGTTGCTCC CCTGCCTCCT GCTGGTGACC TTGTCCTGCC TGGGGACTTT GGGTCAGGCC   120
CCGAGGCAAA AGCAAGGAAG CACTGGGGAG GAATTCATT TCCAGACTGG AGGGAGAGAT   180
TCCTGCNCTA TCGTCCCGAG CAGCTTGGGG CAAGGTGCTG GAGAAGTCTG GCTTCGCGTC   240
GACTGCCGCA ACACAGACCA GACCTACTGG TGTGAGTACA GGGGGCAGCC CAGCAATGTG   300
CCAGGCTTTT GCTGCTGACC CCAAACCTTA CTGGAATCAA GCCCTGCAGG AGCTGAGGCG   360
CNTTCACCAT GCGTGCCAGG GGGCCCCGGT GCTTAGGCCA TCCGTGTGCA GGGAGGCTGG   420
ACCCAGGCC CATATGCAGC AGGTGACTTC CAGCCTCAAG GGCAGCCCAG AGCCCAACCA   480
GCAGCCTGAG GCTGGGACGC CATCTTGAG GCCCAAGGCC ACAGTGAAC TCACAGAAGC   540
AACACAGCTG GGAAGGAATC TCGAG                                     565

```

## (2) INFORMATION FOR SEQ ID NO:586:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 305 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:586:

```

GAATTCGGCC AAAGGGCCTA CAGAATAGCG GTACCATGAT AGAATACTGC AATTGTGGTC      60
AGAATTACAG TATGCACAAA GAATTAATTA GCATTATTAA AGAGTCCTCA CTAAACATTT      120
CATATGATCA CACTGAAGAA CTGTAAACATT CCATAGAGTG AAGTGGTTCA AATTTCTCTT      180
GGAATTTTTA CTTTGTGGT CTTTATTTTA TGATCCTTTT CATATTTCTT TTGACTTAGA      240
GTATTAATAC ATGGCCAAAA TAATTTAGTT ACTACCTCAT ACAAACAATA TAATGGTTAC      300
TCGAG                                         305

```

## (2) INFORMATION FOR SEQ ID NO:587:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 348 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:587:

```

GAATTCGGCC AAAGAGGCCT AGTTGTTTTT AATGGCACAG GACTCTTCCA CTTTGTGGTC      60
CTCCTCTAGC ACAATACTGG ATGGCTGGGG CAAAGAGATTA AAGGAAGTCT TTCCACATC      120
ATTTTCTGCG TGTTCCTCAA ATCTTTTAC TAAATTTGAT ACAAATTCCT CTATTTCTTG      180
ATGATATTGC TTTGAAATAG CATTGTTTAT GAATAGAATC TGTAAATATAG GTCCATCTAA      240
CTTAGTATCG TTCACCAATA TTCCACTCGG TCGAGTCAGA ATGTTCAATT TTCGTTTAAG      300
TTCTTGATTG TCGGCGCGGA GCTGCTCGAT GGTCTCCAG CACTCGAG                     348

```

## (2) INFORMATION FOR SEQ ID NO:588:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 486 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:588:

```

GAATTCGGCC AAAGAGGCCT ACTCATGACA GGATGACAGT CACATTTGGT AGACACCATC      60
AACCAATGAT CTCTAATTTG CGGCCCCCAA CAAGCAATGG GGTTCGTGG GCTACATCTG      120
GAATTTGAAA TGTCTCATGG AAATCATGTT CTTACCCTGG AGAAGGGTGG CTGCTTAGGT      180
GCTACTTAGG AAACCACTCT GGCAGACCAG ATCTTCCCCA ACTCAGGGGC TATGCGGGGA      240
GAAGTATTAG GAGCCCCTGA GCAGGAAGGA TGTACTTAGG AAGGCTACCG GGGATGGGGA      300
AGGGTAAAAG AGCTTAGAAG CCTGGGTGAA GTTTGGGTAG ACCAAAAACA GGAGGGAGGG      360
AGGGAGGATG TTCCCTTGGA ATACAACTA GAGAAAAGCT TAGGGGANCA AGTCTTTTGA      420
TTTGGGGACA GTGAAGAGTT TCCTAAAAAT TCCCTGGCCC CCAGGCCTTG GCTAAAAACC      480
CTCGAG                                         486

```

## (2) INFORMATION FOR SEQ ID NO:589:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 410 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:589:

GAATTCGGCC AAAGAGGCCT AATTGATTGT GATTAACCAA GATGTATGGA AAACAGTTTT	60
AAGTGTGTAG TGCATGTATC TCATAAGGTC CATTAAAGACG TTCATTATTT TTCAATTGAT	120
GCGTCTTAAG CCCCACTTGA TGTGTGTGT AGTGCATTTC CACAGAAGGA TTCTGCACTG	180
TGGGATTGAG TTCATTTTGT TAATTGCATA ATACAACCCC ATCGTGTTTC ATAGAAAATA	240
GTAAATACTC TTGCTTTTAT TCATTGGTAT TCTTTGATAT TACTGAAGAA ATACCAAAGA	300
AGCAAAGGAG CAAAGAAATA CCAAAGAAGC AAAGGAGCAA GTGAATAGTT CTTCAAACCT	360
TTACATATTA AGGGCACGAA TGTTCCTTGA AATGTGGACA CATACTCGAG	410

## (2) INFORMATION FOR SEQ ID NO:590:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 61 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:590:

GAATTCGGCC AAAGAGGCCT ACGGCCAAAG AGGCCTAATT GAATTCTAGA CCTGCCTCGA	60
G	61

## (2) INFORMATION FOR SEQ ID NO:591:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 211 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:591:

GAATTCGGCC TTCATGGCCT ATCTAGACCC AAATATTTTG AATATGTTAT CTGTCTCTT	60
TTCTTTTGT TATATAGAGA GATTGATGCA TAAATCTGT GTTGTATGA CTGTAATTCC	120
AAGTTTAGCG AAATTGTCCC TAGGACAACA CACCAACGGC CATGAGCTGT CTCGGTCTCT	180
CAAGCTTAGT CTCCGATCCT GCCCACTCGA G	211

## (2) INFORMATION FOR SEQ ID NO:592:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 253 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:592:

GAATTCGGCC TTCATGCCTA GCCGGACCTG GTGCTCCTTT CCTTGGTGCT GGGCTTCGTG	60
GAGCATTTTC TGGCTGTCAA CCGCGTCATC CCTACCAACG TTCCCGAGCT CACCTTCCAG	120
CCCAGCCCCG CCCCCGACCC GCCTGGCGGC CTCACCTACT TTCCCGTGGC CGACCTGTCT	180
ATCATCGCCG CCTCTATGC CCGCTTCACC GCCCAGATCC GAGGCGCCGT CGACCTGTCC	240
CTCTATCCTC GAG	253

## (2) INFORMATION FOR SEQ ID NO:593:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 190 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:593:

```
GAATTCGGCC TTCATGGCCT AAAGAAATGA AATAATATCT CTGAATTTTA GTCCATGTTT    60
TCAATGATTT CTGACTTTAT TATATTAACCT CTTATTAATG ATCACAATTT ATTTTGTAAG    120
TTTTGCAGCC AAAGGGACAA TTTATTTTGT AAATTTGGGA TTCTATTTGC AAAATAGGGA    180
TCGACTCGAG                                         190
```

(2) INFORMATION FOR SEQ ID NO:594:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 208 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:594:

```
GAATTCGGCN TTCATGGCCT ACGGGGAACA GAGGATGGCG GAGGAGGGAA CACACAAGCA    60
GGAGCCCATG CAGCTGGGAG CCACTGAGAT CCCAGCTGGA GGAAGAGTGC CCTGGCACTG    120
AGGTCTAATG GCTGTCCAGC TGCTGCCCCA GGATGTGAGG GCAGGTGGTA GGCCATGAAG    180
GCCGATTGAA TTCTAGACCT GCCTCGAG                                         208
```

(2) INFORMATION FOR SEQ ID NO:595:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 120 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:595:

```
GAGCTATAAA ACAGAAATAC ATGCATAGCT GCAGAAACCA TGATAGGTAG AGGACTTTTC    60
TTTTGGTTTT GTTTGTTTT GTTTGTTTT GTTTTGGTT TTACAGAGAA GAGACTCGAG    120
```

(2) INFORMATION FOR SEQ ID NO:596:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 282 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:596:



```

GAATTCGGCC TTCATGGCCT AAGAAACCAA ATTAGCAGAC GGATAGAATA TAAAGCANGA      60
GGCAATACTT ATAGTGTATT AAGAAACTTG CTAGACCCCA TCCAAATTAC TCAGTCTACT      120
GTTGGTTGAT AGAATTACTT TAGGAAGAGT ACGTTTTTCC TTGGAAATAC ACTGGAAGTG      180
GTACCAACA AATCTAATAA AATGATGTTA AAGAGATTG CAGTAATTTT TATCNACTTT      240
CAGTTTGCAA ACTTTTATAA AGATATGAAA NGGACACTCG AG                          282

```

## (2) INFORMATION FOR SEQ ID NO:597:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 184 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:597:

```

GGCCTTCATG GCCTAGACAC ATACAAAGAT AAGGCTTTGA TAAAATTCAA GAGTTATTTG      60
TATTTTGAGG AAAAGACTT TGTGGATAAA GCAGAGAAGA GCCTGAAGCA GACTCCCCAT      120
AGTGAGATAA TATTTTATAA AAATGGTGTC AATCAAGGTG TGGCTTACAA AGACATTCTC      180
CGAG                          184

```

## (2) INFORMATION FOR SEQ ID NO:598:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 370 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:598:

```

GAATTCGGCC TTCATGGCCT ACTTTGAGTT AAATAGAGAG TTGATTAAAT GCATATATTG      60
ACAGTTACTG ACTCAGTAAG CTTCATAATT CTAGGAATCA ATCACTGCTG ATTCAATATG      120
TTAGATATAT TCATTTCTGT CTTTCTGTTT CTTAGGCCAA AAAGAAAAAA GAAAACCAAT      180
ATTTAAGAGA AGAGAAAAAT GAAGACGGGA CATTTTGAAA TAGTCACCAT GCTGCTGGCA      240
ACCATGATTC TAGTGGACAT TTTCCAGGTG AAGGCTGAAG TGTTAGACAT GGCAGATAAT      300
GCATTTGATG ATGAATACCT GAAATGTACG GACAGGATGG AAATTAAATA CGTCCCCCA      360
ATCCCTCGAG                          370

```

## (2) INFORMATION FOR SEQ ID NO:599:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 376 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:599:

```

GAATTCGGCC TTCATGGCCT AAGACTCTTA GATCTAAAAG GAAACTGACT TGCCACCTTG      60
CCAGAGGAAT TCTTGAAATG TTTCTGCAGC CACTTGGCCT TGAAAATAAA GGGTGCAACT      120
CTCAAATCTT GTTCTAACCC GGCTGGAGGA ACCACAAGAC CCAATGAAAT AGCATTTTCT      180
CTCCTTTTCC CAGCACTAGT ATATAACCTA TGAGGAACCC TTGTCTCTGA ATCTGCTCAG      240

```

```

CTTGAAATTT TGTCTCTGAA GGAAGAGAAT GATCTCAGCC CTAGTCTGAC AGTCCTAGAT      300
TTCTGTGAAA TAAGAGTATT CTTCAACTTA GTGCTCACAC TCACATACCA TGAGGGTTCT      360
CTGCAGAGGA CTCGAG                                     376

```

## (2) INFORMATION FOR SEQ ID NO:600:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 479 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:600:

```

GAATTCGGCC TTCATGGCCT AAGTCACTAT TTGGTAGCTG ACTTTGTGCC CTGATTAGAA      60
ACGTGGCTCC TTTTC..TGGT AGTTGTTCTT AGAACCTATC AACCTGCAGA GATTTTATT      120
TTCATGGAAG GGAACAGAGT GTTTCCTTCT TTGCTTCAGA CGGTCACATC TTTAGATCCT      180
GAAGGGAGAG ATGCAGCTTG CTCTCTCCAG AGTCCAAATG CAGCAACAGA TTTTGCCTCC      240
ANGCAAGCAA GATATGCTAT AAAAACCTGC NACATTCTTT CACCAGCTCC TCTCTTTGAA      300
TTTTCGATGC CTCGATGGTC ATTTTCGAGT GACAGCTTGT AGTGAGATAG CTGTGGCATT      360
GGAAGGGGGG AAGCATGCAC CATTTTCCCT AGGGCCTTCC TGCTTTTGCT TGATAAGCAA      420
TTCCTTGAAT GGCATGTTCT CCACCTCTAG CCACCTTGTG TGTAGTCCCT ACTCTCGAG      479

```

## (2) INFORMATION FOR SEQ ID NO:601:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 483 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:601:

```

GAATTCGGCT TCATGGCCTA CACAGGCATA ACAGTCAGTC GGGAAAAGGT CACTGAAGTT      60
GCCCTTAAAG GTGAAGGGAC AGAAGAAGCT GAATGTAAAA AGGATGATGC TCTTGAAGTG      120
CAGAGTCACG CTAAGTCTCC TCCATCCCCC GTGGAGAGAG AGATGGTAGT TCAAGTCGAA      180
AGGAGAGAAA CAGAAGCAGA GCCAACCCAT GTGAATGAAG AGAAGCTTGA GCACGAAACA      240
GCTGTTACCG NATCTGAAGA GGTCAAGTAAG CAGCTCCTCC AGACAGTGAA TGTGCCCATC      300
ATAGATGGGG CAAAGGAAGT CAGCAGTTTG GAAGGAAGCC CTCCTCCCTG CCTAGGTCAA      360
GAGGAGGCAG TATGCACCAA AATTCAAGTT CAGAGCTCTG AGGCATCATT CACTCTAACA      420
GCGGCTGCAG AGGAGGAAAA GGTCTTAGGA GAAACTGCCA ACATTTTAGA AACAGGTCTC      480
GAG

```

## (2) INFORMATION FOR SEQ ID NO:602:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 296 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:602:

```

GGGCCGTGCA GGCAGTGAAT CGGAAAGTGG AGATGATGAA TGAAAAGAAC TTGGAGAAAAG      60
GACTGGGCGT GGACAGTGTG GACAAGGATG CCATGAACGC GGCCATCCAG CAGGCCATCA      120
AGGCCCAGCC GTCCATGTCT CCCAAGAAGG CGCCCCCAGC GCCTGCAAAG GAGGCCAGGA      180
ATGTCGTGGC CGTGGGTACT GGTGGCCGTG GGACCCACGA CCGAGACCCG AGTGAGAAAC      240
CACCCCGGCT CCACTGGTTT GAACAGCAGG CGAAGAAGTT GGCAAAGCTA CTCGAG      296

```

## (2) INFORMATION FOR SEQ ID NO:603:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 424 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:603:

```

GAATTCGGCC TTCATGGCCT AGAACTTTTT CATCTTTCCA AACAGAAATT CTATACCCAT      60
TAAACAGTAA CTCTCCCTTC ACCACTCTCC CCAACCCCGG AGACCTCTAT TCTATTTTCT      120
GTCTCTATAA ATTGCTCTAT TTTAGGTACC TCACATAAGT GAAATCATAT ATTTGCCCTT      180
TTGCATCTGG CTTATTTTCA TTAGCATGAT GTCTTCAAGG TTCATCCATG TGGTAGTAGC      240
AGAATTTACT TCCTTTTAA GACTAGCATA CTCACACTGT TTTTGTGTT GTTTGTTTGT      300
TTGTTTGTGTT TTGGGATGGA GTCTCACTCT GTTGCCCGAG CTGTGGTGCG GTGGTGCCAT      360
CTCGGCTCAC TGCGGCCTCT GCCTCCCGG TTCAAGTGAT TCTCATACCT CAGCCATCCC      420
TCGG      424

```

## (2) INFORMATION FOR SEQ ID NO:604:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:604:

```

GCGATTGAT GTCCGTGCCC ACCTGGACCA CATCCCGAC TACACCCCC CCTCTGCTCA      60
CCACCATCTC CCCAGAACAG GAGTCGGACG AACGGAAGTG TAACTACGAG CGCTACAGAG      120
GCCTGGTGCA GAACGACTTT GCCGGCATCT CAGAGGAGCA GTGCCTGTAC CAGATCTACA      180
TTGATGAGTT GTACGGAGGC CTCCAGAGAC CCAGCGAAGA TGAGAAGAAG AAGCTGGCAG      240
AGAAGAAGGC TTCCATCGGT TATACCTACG AGGACAGCAC GGTGGCCGAG GTAGAGAAGG      300
CACTCGAG      308

```

## (2) INFORMATION FOR SEQ ID NO:605:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 506 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:605:

```

GGATGCTACA GAAATCACAG AAGAAAGCAG AACTTCTTGA TAATGAAAAA CCAGCTGCTG      60

```

TGGTTGCTCC	CATAACAACG	GGCTATACGG	TGAAAATCAG	TAATTATGGA	TGGGATCAGT	120
CAGATAAGTT	TGTGAAAATC	TACATTACCT	TAAGTGGAGT	TCATCAAGTT	CCCACTGAGA	180
ATGTGCAGGT	GCATTTTACA	GAGAGGTCAT	TTGATCTTTT	GGTAAAGAAT	CTAAATGGGA	240
AGAGTTACTC	CATGATTGTG	AACAATCTCT	TGAAACCCAT	CTCTGTGGAA	GGCAGTTCAA	300
AAAAAGTCAA	GACTGATACA	GTTCTTATAT	TGTGTAGAAA	GAAAGTGGAA	AACACAAGGT	360
GGGATTACCT	GACCCAGGTT	GAAAAGGAGT	GCAAAGAAAA	AGAGAAGCCC	TCCTATGACA	420
CTGAAACAGA	TCCTAGTGAG	GGATTGATGA	ATGTTCTAAA	GAAAATTTAT	GAAGATGGAG	480
ACGATGATAT	GAAGCGAACC	CTCGAG				506

## (2) INFORMATION FOR SEQ ID NO:606:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 522 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:606:

GGTGGAATGA	AAGATATACC	TAGAACGCCA	TCTAGAGGGA	GAAGCGAATG	TGATTCTTCC	60
CCAGAACCGA	AAGCTTTGCC	TCAGACTCCT	AGGCCGAGGA	GTCGTTCTCC	ATCATCCCCA	120
GAGCTCAACA	ACAAGTGCTC	TACCCCCCAG	AGAGAAAGAA	GCGGGTCAGA	ATCATCAGTT	180
GATCAGAAAA	CTGTGGCTCG	GACTCCCCCTG	GGGCAGAGAA	GTCGTTGCGG	ATCCTCTCAA	240
GAAGTTGATG	TGAAACCCAG	TGCATCCCCT	CAGGAAAGAA	GTGAGTCAGA	CTCTTCTCCA	300
GATTCTAAAG	CCAAGACACG	AACCCCACTT	CGGCAGAGGA	GTCGGTCTGG	ATCATCTCCA	360
GAGGTTGACA	GCAAATCTCG	ACTATCCCCT	CGGCGCAGTA	GGTCTGGTTC	CTCCCCTGAA	420
GTGAAAGATA	AGCCAAGAGC	AGCACCCAGG	GCACAGAGTG	GTTCTGATTG	CTCTCCTGAA	480
CCTAAAGCTC	CAGCCCCCTG	GGCCCTTCCC	AGACAACCTG	AG		522

## (2) INFORMATION FOR SEQ ID NO:607:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:607:

GAATTCGGCC	TTCATGGCCT	AGGCGCACCA	AGAGCAGGGC	TGTGTGTGGG	AGGCTGCAGC	60
CAGGATTGCC	TCAGCTCCTC	CCCCTCAGGC	TGGGAGGATA	GCACAGGCTA	GGGGCTCGGG	120
GTGGAGGGTC	TCAGCTCTGC	TGCCCCCACC	CCAGTACTAG	CCTAGCTTCC	CAAGCTGTGG	180
CTTAGAGGAT	AGTTGGCTTC	CTGCCTCTCT	CCTCTAAAAT	AGCAAGTCTG	GGAAATCCTG	240
GGGTGAGTGG	AGTCACCCCA	CTCCAGTTG	CTGGCAGAGA	CTGAGACTAA	AGCATCACTT	300
AATAAACCCC	CCAGCTCGAG					320

## (2) INFORMATION FOR SEQ ID NO:608:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 283 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:608:

GAATTCGGCC	TTCATGGCCT	AGTTGTGTAT	TCTTTTCTCT	GTATCATATG	TGATAGTGGG	60
GTAGTGCCAA	ACATTGTTAA	CTCTGATGAA	TAATGTCTCT	TTTGGTTAGA	TCATTCTTAC	120
CTTACTGGTA	TCTCTTACTG	TTTCCTTACC	TAGTTATGCT	GTTATTGGCT	ATGGCTGTGC	180
CAGCTGCCCC	AAGCTAACTT	GTGAGAGGGA	AGGTTGCCAG	ACTGAGTTCT	GCTACCACTG	240
CAAGCAGATA	TGGCATCCAA	ATCAGACATG	CGATCTACTC	GAG		283

## (2) INFORMATION FOR SEQ ID NO:609:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:609:

GAATTCGGCC	TTCATGGCCT	ACACATGAGT	GTGACCTCTG	CCATGGGGAA	ACACACACAG	60
AGATATCTAT	ACATATATAC	ATACATACAA	ACATAGGCTA	TCTTGGCACA	CTAAATGCTA	120
AGCACTGTCT	TAAGAGGTAG	AGCTGGTGTG	AGTGAAATTA	ATGTTACATT	TTCCAGCTGT	180
AAACAGACAT	CTGCATTTC	TAGTGAGCTG	CCAGGAGCCA	GATTCGGGAA	CCGTAACTGA	240
TGTGCCAGGA	ATGGTGCATT	GATTCCCACT	TCCAGGGATC	TCTCGAG		287

## (2) INFORMATION FOR SEQ ID NO:610:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:610:

GAATGATAGG	TCCTAGGTTT	AACAGGGCCC	TATTTGACCC	CCTGCTTGTTG	GTGCTGCTGG	60
CTCTTCAACT	TCTTGTGGTG	GCTGGTCTGG	TGCGGGCTCA	GACCTGCCCT	TCTGTGTGCT	120
CCTGCAGCAA	CCAGTTCAGC	AAGGTGATTT	GTGTTGCGAA	AAACCTGCGT	GAGGTTCCGG	180
ATGGCATCTC	CACCAACACA	CGGCTGCTGA	ACCTCCATGA	GAACCAAATC	CAGATCATCA	240
AAGTGAACAG	CTTCAAGCAC	TTGAGACACT	TGGAATCCT	ACAGTTGAGT	AGGAACCATA	300
TCAGAACCAT	TGAAATTGGG	GCTTCAATG	GTCTGGCGAA	CCTCAACACT	CTCGAG	356

## (2) INFORMATION FOR SEQ ID NO:611:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 393 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:611:

GAATTCGCCT	TCATGGCCTA	ACCACATGAT	CCTTCGTGTT	TCTTGCCTTC	CATTTCCCTT	60
------------	------------	------------	------------	------------	------------	----

```

GGGTGGATGG TTGGGTAGGT GGGGTTTCCT GTTTGGGGT TTCTCAGACA AGGGCCCTCT 120
AGGGAGGGTG CCCTGGACCC CCCACCACTC CTGGGCTGAG GAGCGTGTCA CATGATGCCG 180
TTGGTGAGGT ACTGGAAGCC GTCATAGAGT TTGGTGGTGA TAGACCGCAT ACTGCCATCC 240
ACCATCTGCT CCACCAGCAG CTGCAGCTGC TCCTCAGTCA TGCTCATGTG GAACCTCTCT 300
TTGAGGTTNC GAATGGTGCT GGAGCCATGG AAGCAAGGAA GCTGAGAACC TTGTCCATGT 360
GTTTCCGAGC GGCAATCAGC CCTTGCAGCA TCA 393

```

## (2) INFORMATION FOR SEQ ID NO:612:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 645 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:612:

```

GAATTCGGCC TTCATGGCCT AGGCGGGTTA AAGTCACATT TTTAAAAAGG CTAAACTCTA 60
AATTGCTGTA TTTGCTCTCT CTGGAGATTA ACAAAGTGCT TGGTTTGAG ATTGCTGGT 120
ACGGTGATCT CAATGATATG ACCGAGGGTG GGAGGGATGT GAGGAGGGAA ATCGGCAAAA 180
CCCTGGCCAG CCAGCCAGCC AAGGTGACAC ACAGCCAGAG GGGGCTCCCC TCTCCTCTG 240
CCGTCCGGCC ACGGCTCACC ACGCTGTCCA CTGGGAACGC GGCCCCGGCG CCCGCAGAGT 300
CAGGCGTGAG CTTGCCCCCTT TTCTGAAAGG GCCTCCGCCT GGGCAGGCGC CGGGGGGCAG 360
TCCTCGGGTC CCATGGCTTA GGAGCACAGC ACTGACGGCT GCAGTGGCTC GAAAGGCTGA 420
AATTCACAT TGCTCTCTAG CGATCCGCA CTGCTGCGAC GCCCTCGCTT CCCGGCTTCC 480
GAGAGGTCCT GCAGGGAGCT GCTGAGGGCG CTGCGCTTGA GGCCCTCACC GCTGGCATAG 540
CTGTCTGTTA GGCAGGCCCG GCTCAGTGT TCCGTTGCC GACTCCTTTT TGAGGCTAGA 600
GCACTGGGAC ATGCTGGGCC GCACGACGCC TTTCTGCTTC TCGAG 645

```

## (2) INFORMATION FOR SEQ ID NO:613:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 337 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:613:

```

GCGATTGAAT TCTAGACCTG CCTCGCACCA CCCCAAATCC CACATCCTGC ACCCCTGCCT 60
CAGGCTTCCT GCCCTCAACC CCAATATTCT GAGCCTTCTC TTTTITTTTG TTGTTTTTTT 120
GAGACAGAGT CTTGCTCTGT CTGTCGCACA GGCTGGAGAG CAGTGGCGCG ATCTCAACTC 180
ACTGCAACCT TCACCTCCCA GTTCAAGCA ATTCTCCTGT CTCAAGTGCC TAGATACCTT 240
GGTAATGATT CCATTGGCCC CACCATGCCC TGTCCTGCCT TCCTGGCTGT GCCCAAGCTT 300
GGTCCCTGCC TGCTGCCTC ACTCTCTGGG TCTCGAG 337

```

## (2) INFORMATION FOR SEQ ID NO:614:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 431 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:614:

```

GAATTCGGCC TTCATGGCCT AGGTTTGTAGA ATTTTATATG AAGTATCTTA TTGATTTTC      60
ATAATAACCA TAGAAGATAG ATACTATTAT TATCCTTGGA TTATAGATGA AATTGAAGAT      120
TGCTTCGCAG GTAGAGTTAA GATCCAGAAT GGTGACAAGA AGTATAATGT CTGCTTTTAT      180
GCCATAATAT ATCAGACTAT TCTGACTCAT TTAGATTACT TCAGGGCTAT CACTGAAGCT      240
TACAGTATTA TCACTACTGT GATACCCCTG CTCACACAAT TTGGTAAGTG TTTTGTATC      300
TTTTAGAACT TATACATTAG GCAGCAGCTA TCTGTTTGGT CAGCTGAAAG ACGGCCACAG      360
GATTGCTTC TGGGTGGCCA TTAGCACCTT TCACCCATGC ACCAGAGAGA TACTTCCAGC      420
ACGAACTCGA G                                     431

```

## (2) INFORMATION FOR SEQ ID NO:615:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 484 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:615:

```

GAATTCGGCC TTCATGGCCT ACCAAAATTG TGCATACCCT TGGGATGAAA ATCATTGTAA      60
AGAAAAGAAA AAAGCAGGAN TATTTGAACA AATCACTAAA ACTCATGGAA CAATTTTGG      120
CATTACTTCA GGGATTGTCT TGGTCCTTCT CATTATTTCT ATTTTAGTAC AAGTGAAACA      180
GCCTCGAAAA AAGGTCATGG CTGCAAAAAC CGCTTTTAAT AAAACCGGGT TCCAAGAAGT      240
GTTTGATCCT CCTCATTATG AACTGTTTTC ACTAAGGGAC AAAGAGATTT TTGCAGACCT      300
GGCAGACTTG TCGGAAGAAT TGGACAACTA CCAGAAGATG CGGCGCTCCT CCACCGCCTC      360
CCGCTGCATC CACGACCACC ACTGTGGGTC GCAGGCCTCC AGCGTCAAAC AAAGCAGGAC      420
CAACCTCAGT TCCATGGAAC TTCCCTTCCG AAATGACTTT GCACAACCAC AGCCAATGCT      480
CGAG                                     484

```

## (2) INFORMATION FOR SEQ ID NO:616:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:616:

```

GAATTCGGCC TTCATGGCCT AGCGTTCCTG GTTCCGTCCT TGTACATAAT ATTGTACAGC      60
ATTCAACCAC TTTTGTTCGAT CAGCAAAGTA GTCTCCAATG GCATTGTTGG CTGTTCCAG      120
GAGACTGTCA TCTGCATCAC CAGATCCAGT TTTCAGGAGC TGGAGTACTC TAAACCAATC      180
CCCCAATTTT AGCCGGAGGC CAATAGCAAG ATCCCTTCTG TCCATCTCGA G               231

```

## (2) INFORMATION FOR SEQ ID NO:617:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 627 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:617:

GAATTCGGCC	TTCATGGCCT	ANAATGCTTC	ATGAACTNGC	NGACAGGACT	GACACAGCTN	60
AGCTTTCCTG	ACTGATTCGG	GGCCATGCAG	TCTACCAAAG	GGCTAGCTGT	TGAGACAATG	120
AGGATCAGGG	ACATTTGCC	TCGTTCTGAA	TGTCCCCAGC	CACAGTACNT	ACATNGTTCT	180
TACATGTACC	TTCCCCCTCG	GTGACATTTT	ATATTTTCCA	AGNTGGCCAC	ANCNGTTCCC	240
TTCCCTTTCT	NNTNGNGNNG	NACACTCACA	CCCGTCTCTG	NGAGGTGAGG	CCACATATTC	300
TCTTTTCTGG	AATTTGGGTG	GGCCTGTGAC	AATGGCAGGA	CAATGCTGAG	TGGCTATGTC	360
ATAAAGGCAA	TACCCCTTCC	ATCCAATTCT	CTTGGGATGC	TCATGTTTAG	AATCCAGCCA	420
CCATGTTGTG	AGGAAGCCCA	CGTCACCTAT	GAAGACCTAC	ACAGAAAAGA	CTCAAGGCCC	480
CAGGCACCTG	AGCTGAAGGA	TGAAAAAGAG	TTAGTCAGCA	GGGGAAATTG	GGGAAAGGGT	540
ATCTGGTAGA	AAGAAGGAAC	AGCTTGTGCA	GAGGTNCAGA	GGCAAGAGAG	AATTTGGCAT	600
ATTTGGGAAG	CTGCAAAGA	TCTCGAG				627

## (2) INFORMATION FOR SEQ ID NO:618:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 130 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:618:

GAATTCGGCC	TTCATGGCCT	ACGACTTCAA	AAATATGGGA	ACACAGTTAG	TTATTTTAC	60
ACAGTTCTTT	TGTTTTTGT	GTGTGTGTC	TGTCGCTGT	CGACAACAGC	TTTTTGT	120
CCTCAATGAG						130

## (2) INFORMATION FOR SEQ ID NO:619:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 495 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:619:

GAATTCGGCC	TTCATGGCCT	ACTGGGGGAG	GGGAAGGATG	TGGTTGNAG	AGNGGAAGCA	60
GAGTTTGAA	ACGCATGAGA	GCAGAGCTTC	GTGTGTTCCC	ACCCTCANTG	AGGANGTGTG	120
AGTGGGTGAG	CATGTGAGAG	TTGGGTGTTT	CTACCCCTCAG	TGAGGAGGTG	TGAGTGGGGG	180
TGCATATAGA	GGCAGTGCCT	GCTGTGGGGT	CACAACTGGT	GCATGCCAGC	GCCAAAGGGA	240
CCTGTCTTTA	GGGGTCATTT	CAGCCAGCTC	CTCCCATCAC	AGATGACAGC	TCCAAGCCTA	300
GAAGGGGGTC	AGTGACAGGG	CCAGGACAAG	CCCTCAGGAC	TGTGGCTCC	TGGCCCTTGG	360
TTCCCTTGCC	CCACAACATG	GTCTCCACAT	GGCTGGCTGG	CTGGCTGTCC	CTGTGTGTGT	420
GTGACACACG	GTGTGAGTGC	AGGGCTGTGC	CCGGGGTGGG	AGGGTGTCTA	TGTGGCACTG	480
ACTATCGAGC	TCGAG					495

## (2) INFORMATION FOR SEQ ID NO:620:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:620:

GAATTCGGCC	TTCATGGCCT	AGCTGATGAT	TCCAAACATT	TNGTAAATTA	ATTTTCTCT	60
CTTTACCTTT	CAGCTTGGAA	GGAAGACAGA	AGCCTTAACC	TCCAGGGTAA	CATGTTGCAA	120
TTTGTTCACT	TATTAATCTA	ACAAGAATGC	ACTGAGGTGC	TCATTAAATG	TCAGACCTTG	180
TGTGAGGTTG	AGGAAATCCA	AAAGCAAAGG	AGGCATGAAC	CTCCATGCCC	ATTCAGAAGG	240
GCACCAGGCC	TTTAAGAAG	GGTGGATATG	CACAATTGGA	AAATAACTGA	TAGTCCTGAC	300
TTATCTTTGC	AATTAATAAG	GCAATTTCAT	ACACATTTTA	TACTCGAG		348

(2) INFORMATION FOR SEQ ID NO:621:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:621:

GAATTCGGCC	TTCATGGCCT	AGCAGGATGG	CACCGGACCC	CTGGTTCTCC	ACATACGATT	60
CTACTTGTC	AATTGCCCAA	GAAATTGCTG	AGAAAATTCA	ACAACGAAAT	CAATATGAAC	120
GAAAAGGTGA	AAAGGCACCA	AAGCTTACCG	TGACAATCAG	AGCTTTGTTG	CAGAACCTGA	180
AGGAAAAGAT	CGCCCTTTTG	AAGGACTTAT	TGCTAAGAGC	TGTGTCAACA	CATCAGATAA	240
CACAGCTTGA	AGGGGACCGA	AGACAGAACC	TCTTGGATGA	TCTTGTAAC	CGAG	294

(2) INFORMATION FOR SEQ ID NO:622:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:622:

GAATTCGGCC	TTCATGGCCT	AGGTCAAGGG	ACAATGAAAA	TGTGACCCTT	ACCAACGACA	60
GAAACTCCCA	GGAAGCCACA	ATTAATCAA	GACCACCAGG	ATATTTGGGG	AAGTTTATCC	120
TTCTGGAAC	CAGAAATTCT	GATTTGTGGA	AAATTCTATA	GATATTCTCT	GCCAGACTCC	180
AGCCTATTG	TGTGAGACAT	CTGGGGAGGC	TCCCCTTTT	TTCACCATTT	GAGGACTGAA	240
AGTAAATTTA	GCTTCCTCAG	CAGAAAGAAA	AGAAGCTGTT	TTGGAGGTGA	GGAAGAAGCT	300
CGAG						304

(2) INFORMATION FOR SEQ ID NO:623:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:623:

```

GAATTCGGCC NTCATGGCCN ACTCTATTGG TGCAAAGTAA GATTACATC TGTGTTGAGA      60
ATCTTTGAGA TAATACCCCT TTTCTACATT TCTGCATTTT TTTTCTGTGA NCCCCACTAG      120
TATTNCNCCA TTTTNACCTT TTCATTTAAC TTATCCTCAC ATTATAAGAG ATGGATGACC      180
TATACAGACT TGGCCTTTGG GCTTTGGCTT CATTCAATAT CATCTGGGT ACCACTGAAT      240
ACCGTTCAAT CTAGAGCTGG GTGGTAGGTT GAGATGTATA TTTCTAGCC CAGATCCCAG      300
AATCTAGAAG AAGTTAAATC TGATATGACT TTGATAAATA AGACAGTATG TTCTTCTAAC      360
CCCATCTCCC GTTCTCTGAC ACTGAACATA TATATGAAGT ATATATAACA TATACCGAGT      420
ATTTAAATTT TTAGAATAAA AATGTGCATT ACTGCACATC TTCCTGTCTT TCATTCTCTG      480
GTTGAGTTTC CCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:624:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:624:

```

GAATTCGGCC TTCATGGCCT AGAGCAAGCA GAGGTGGCCT GCGTGTGTAT GTGCTCATGT      60
GTATGTGTGC ACATGCATGT CTGTGTGTGG ATGCCCATGC GTGTAACATC TGATGTGGCA      120
CATGATACAA CATAATTTAT TTATTATAGA AACCTGCAAG TAAAGATTCA AGAGGAATCG      180
CAGATCCCAA TCAAAGTGCC AAGTGGTAGG TTACCCTGAC AGATAGTACC TCCCTTTTTT      240
ATTTTTCAAA TGCTGGCATA GTTTGTGTT CTTTACCAAC TCATTGATTT ACTGGGGACA      300
TCCTCTGTAC TTATCACAAC AGGTTCTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:625:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

```

GAAGTTGCAT TACACCTTCT CTTCTGAAGT AAACACTAAA AATATCAGGT AACTTCTGCA      60
TTAAATTTTC TGCCATCTGA AGTGCTCCCA CTTACTATCT TCAGGTCTTG GCTTGACAGC      120
ATGGAAGCAA TGTGACTTGA AACAGCATGA TTTTTCAGAA CATCCTTCAG AAGTTCAGCA      180
TCCGCAAAAT AAATATCCTT AAGAATTGCT CTAAGGCACT TATGTCTGAC CGCAGGTCCT      240
GCTGAGGAAC TATACACTTC ATAAAGAACA CCAAATAATG TCTTAATAAA AGACTTAGCC      300
AGTTCCGGAT CCTCTTTCAT AAGCTGTGCT CGAG

```

## (2) INFORMATION FOR SEQ ID NO:626:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

```

GAATTCGGCC TTCATGGCCT AGTCGGATTC CCAGTGAAC TTTAGTAGTA CTCAGATCCT      60
CCTTTGTTTG GTGCGTAGTA TATTAACAAG TAAACCTGCC TGTATGCTCA CCAGAAAGGA      120
AACAGAGCAT GTCAGTGCTT TGATCCTGAG AGCCTTTTTC CTTACAATTC CAGAAAATGC      180
TGAAGGCCAC ATCATTTTAG GAAAGAGTTT AATTGTACCT TTAAAAGGTC AAAGAGTTAT      240
AGATTCCACT GTATTACCTG GGATACTCAT TGAATGTCA GAAGTTCAAT TAATGAGGCT      300
ATTACCTATC AAAAAATCAA CTGCCCTCAA GGTGGCACTC TTTTGTACAA CTTTATCCGG      360
AGACTCTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:627:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 522 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

```

GAATTCGCCT TCATGGCCTA GATGTTTCAA TTTCGAAGTA CTTTGAAGT TTAGTAATGT      60
CAGAGTTGAA CATTTTCTGT AGCATGACTA TCGACTTGTC TTTTCAAGGC AGCCTGCAAA      120
GCCATTGAAC AAGCAAAGAC TCAAACATC AATAAACTGG TTCTGTATAC AGACAGTATG      180
TTTACGATAA ATGTTAAGCT TTCACATTG ATTTCTTCTG TTTTCCAGT AACTGTGAAG      240
GGAAATTGGT AGGAGGTGTT GTAACAGGGC AGGACCCAAA TGGGAACGGG GGGATGACAT      300
TGGTTTGTC GGTACCGAGC AAAGAGTGAG GATTTTGGAG TCTCCCTTCT GCTGCTCTGA      360
TGTTTTCCAC ATGCTTATTT CTTTGCCAGG CACTGGAGAT GCAGTCAGAA GTGGAAGTGG      420
CTCTTACTTC TAGTCTGTGT GTGTATAAGT CACTTAAGAT GGCGTGTTGA CTGCTTCTTT      480
GGGAAATGCC CTGAATAGGA GCATGTAGGG GATGTGCTCG AG

```

## (2) INFORMATION FOR SEQ ID NO:628:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 212 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

```

GAATTCGGCC TTCATGGCCT ACAAATATC TGTGGGAAGG TGAGCTACTT AGCATTCAAC      60
AATGCAAAGT TTCAAAGCAT TTTGCAAATT TTAAATATAC GCTATAATTC TTCTGTAATT      120
GGTGTCTTTG GTACTTTTTC GGTAATTGG AGTTATTCCA AAATAATTAT ATTTTATAGC      180
ACTTTTGACA CCATAACACT TAGCATCTCG AG

```

## (2) INFORMATION FOR SEQ ID NO:629:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 358 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

```

GAATTCGGCC TTCATGGCCT ACTCCTTCCG CGCGAGTCTC TGGAGAAGCC GCAGCGCGAG      60
TTGCCGCCGC TGCTGCCCGG GGCCGGCTTG CCTTGCGCCA TGGACTGGCA GCCAGACGAG      120
CAGGGCCTGC AGCAGGTCTT GCAGCTGCTC AAAGACTCAC AGTCGCCCAA CACAGCCACT      180
CAGCGCATCG TGCAGGATTA ACTCAAACAA CTCATCAGT TTCCTGACTT CAACAACACTAC      240
CTGATTTTCG TCCTGACCAG ACTCAAGTCA GAAGATGAGC CAACGCGCTC TCTCAGTGGC      300
CTCATCTCA AGAACAACGT GAAGGCACAC TATCAGAGCT TCCCACCCCC CGCTCGAG      358

```

## (2) INFORMATION FOR SEQ ID NO:630:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 168 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

```

AAGAGAACAA TAAATAGGC AGTCTCCTAC CTCTGTCTT ACTCTAATAT AAATCCATG      60
AAGATAAGTA TTGTATCCAT ACTGTTTCATG CTGCACAGCA GTTGCCCTTA TCTGCGGGC      120
GACGCATCCC AAGACCCCCA GTGGATGCTT GAAACTGCAG AACTCGAG      168

```

## (2) INFORMATION FOR SEQ ID NO:631:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 477 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

```

GAATTCGGCC TTCATGGCCT ACATAACTGC ATTCTGACCT CCTTCTTGCA GTGCCAAGAG      60
AAATGATGGT GAACTAAGTG CGGGGTGTGG GGTGTTCTC AAAATGCGGT CATTGCTACA      120
GAACTAGGGT TTTTGTTAG TTACATNCTT TGTGGAAGGA CAGGGTGGTG GGTACAGGTC      180
CCTGAGAAGC AGACATGTGG AATTGTTTGA GACAATCCTA CTCCCTGTGG TACTCTCTCT      240
ATGTATATAT TCCAATGAAG GTAATTTACC TCATGCTTTC CTAAATACAT AAATCTTTAC      300
ATTTCAAATG CCTTGTTAGA CTGTACTCAA GATTCCAGAG ACATTTTAAA ATAATTCATT      360
TTCAAATCAT AAATTTGGGA AANGGGGCCC TGGGATAAGC AAGTTGACTG GGCCACTGCT      420
TATGCCATTC CCTGCACAA TCTGGGCATG GAGCAGCTCT CCCAGAGCCC ACTCGAG      477

```

## (2) INFORMATION FOR SEQ ID NO:632:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 330 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

```

GAATTCGGCC TTCATGGCCT ACTGCCTCCT GATGAAGTCC CTACTGTTCA CCCTTGNAGT      60
TTTTATGCTC CTGGCCCAAT TGGTCTCAGG TAATTGGTAT GTGAAAAAGT GTCTAAACGA      120
CGTTGGAATT TGCAAGAAGA AGTGCAACC TGAAGAGATG CATACAAAGA CTACAAGAAT      180

```

```

TTCAACAGTA ACAGCAACAA CAGTCAACAA CAACTTTGAT GATGACTACT GCTTCGATGT      240
CTTCGATGGC TCCTACCCGT TTCTCCCACT GGTGGAACAT TCCCAGCCTC NGTCTCCTGC      300
TCTAGGATCC CCGACCCATT AAGACTCGAG                                         330

```

## (2) INFORMATION FOR SEQ ID NO:633:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 391 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

```

GAATTCGGCC TTCATGGCCT AGGAGAAGGC CCTGCAGGCC GCATATGGCG CCAGCGCCCC      60
CAGTGTGACC TCGGCTGCCC TCGGTGGAT GTACCACCAC TCACAGCTGC AGGTAACCAG      120
CGACCCTGGG TGCTCAGCTT CTTCCCTTCC AGGGGGACCA GCGTCACCTT TAGGTGAAGC      180
CCAAAGCATT TGATTCTGA ATTCTCTGA AATTTTCTT TCTTCCAATT CTCATAAGCA      240
CTCTTCCAC TGGTCTTTGA TGGTATCTGA GTGGAGGCTT TGTAAGTGAAG GATTTTCATT      300
ACAGGGATTT TCTTATTCCT TAGGCTTCT GAAGTATGAT TATCCCAGTG TTATTGATGA      360
GGAAACCGAG GTTCACCAG CTATTCTCGA G                                         391

```

## (2) INFORMATION FOR SEQ ID NO:634:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 505 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

```

GAATTCGGCC TTCATGGCCT AAGTACAAAT ACCTATTATG TTGGTTGGGA ATAAGAAAGA      60
CCTGCATATG GAAAGGGTGA TCAGTTATGA AGAAGGGAAA GCTTTGGCAG AATCTTGGAA      120
TGCAGCTTTT TNGGAATCTT CTGCTAAAGA AAATCAGACT GCTGTGGATG TTTTTCGAAG      180
GATAATTTTG GAGGCAGAAA AAATGGACGG GGCAGCTTCA CAAGGCAAGT CTTCATGCTC      240
GGTGATGTGA TTCTGCTGCA AAGCCTGAGG AACTGGGAA TATATCWAC CTGAAGAAGC      300
AAACTGCCCC TTCTCCTTGA AGATAAACTA TGCTTCTTTT TTCTTCTGTT AACCTGAAAG      360
ATATCATTTG GGTCAAGCT CCCCTCCCTT CAGATTATGT TAACTCTGAG TCTGTCCAAA      420
TGAGTTCACT TCCATTTTCA AATTTAAGC AATCATATTT TCAATTTATA TATTGTATTT      480
CTTAATATTA TGACCAAGAC TCGAG                                         505

```

## (2) INFORMATION FOR SEQ ID NO:635:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 325 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

```

GAATTCGGCC TTCATGCCTA CAAATATGTC CTCTGTCAAG ACCCTGAAA CAGTTGTCCC      60

```

CACAGCCCCT	GAGCTCCAGA	TTTCCACCTC	CACAGACCAA	CCTGTCACCC	CTAAGCCCAC	120
ATCTCGGACC	ACTAGGAGCA	GGACAAATAT	GTCCTCTGTG	AAGAACCCTG	AATCAACTGT	180
CCCTATAGCC	CCTGAGCTCC	CACCTTCCAC	CTCCACAGAG	CAGCCTGTCA	CCCCTGAGCC	240
CACATCTCGG	GCTACTAGGG	GAAGAAAAAA	TAGATCCTCT	GGCAAGACCC	CTGAAACACT	300
TGCCCCACA	CCCCCTAAGC	TCGAG				325

## (2) INFORMATION FOR SEQ ID NO:636:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 201 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

GAATTGGCCT	TCATGGCCTA	GCTTCCTCTT	CAAAAATGTG	TCTACCTAAG	ATACTATTAT	60
TTAAGCCTCT	GTGTACTTTT	AACCGTAGAA	CTGATTTTAT	AGGAAGACGA	AACCTGTCCG	120
CTTTCAAGAC	ATGGAGTGTG	TGCCTTGTGG	AGACCCTCCT	CCTCCTTACG	AACCGCACTC	180
TCATCCACAA	AGAACCTCGA	G				201

## (2) INFORMATION FOR SEQ ID NO:637:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 417 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

GAATTCGGCC	TTTATGGCCT	AGGCAAAGCC	TGAAAGTCCT	TGGACTTCTC	TGACCAGAAA	60
GGGAATTGTT	CGAGTTGTAT	TTTTCCCCCT	TTTCTTCCGG	TGGTGGTTAC	AAGTAACATC	120
AAAGGTCATC	TTTCTTGGC	TTCTTGTCTT	TTATCTTCTT	CAAGTTGCTG	CAATAGTATT	180
ATTCTGCTCC	ACTTCTAGCC	CACACAGCAT	ACCTCTGACA	GAGGTGATTG	GGCCGATATG	240
GCTGATGCTG	CTCCTGGGAA	CTGTGCATTG	CCAGATTGTT	TCCACAAGAA	CACCCAAACC	300
TCCTCTAAGT	ACAGGGGGTA	AAAGAAGAAG	GAAATTAAGA	AAAGCAGCCC	ATTTGGAAGT	360
ACATAGGGAA	GGAGATGGTT	CTAGTACCAC	AGATAACACA	CAAGAGGAAT	GCTCGAG	417

## (2) INFORMATION FOR SEQ ID NO:638:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

GAATTCGGCC	TTTATGGCCT	ACCCTCCTCC	AATGAGTCCC	GCCAATGCCC	CAATGCCCCG	60
TGCCAGTTTC	CTTTCTACGG	TGGTGAGTCG	GGCTACCACC	GGGCCCTGCT	GGGCCTGCAG	120
ATCTTCAATG	CCTTCATGTT	CTTCTGGTTG	GCCAACTTCG	TGCTGGCGCT	GGGCCAGGTC	180
ACGCTGGCCG	GGGCCTTTGC	CTCCTACTAC	TGGGCCCTGC	GCAAGCCGGA	CGACCTGCCG	240

GCCTTCCCGC TCTTCTCTGC CTTTGGCCGG GCGCTCAGGT ACCACACAGG CTCCTGGGCC 300  
 TTTGGCGCGC TCATCCTGGC CATTGTGCAG ATCATCCGTG TGATACTCGA G 351

(2) INFORMATION FOR SEQ ID NO:639:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 567 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

GAATTCGGCC TTCATGGCCT AATTTTTTTG AGACAGAGTC TTA CTCTGTT GCCCAGGCTG 60  
 GAGTGTGGTG GTGCGATCTC GGCTCACTGC AACCTCTGCC GCCTGGGTTC AAGCTATTCC 120  
 CTGCCTCGGC CTCCCAAAT ACTGGGATTA CAGGCGTGTG CCGCTGTGCC CAGCCGCTGT 180  
 CTAGTCTTTT AAACTTGGT GTTTGAGCAT GCACATTCTC CTCTGGAAT ACCTGATCAC 240  
 CCAGCACAAAC TCACGTTNTC TTCTGTCTGG CTACCCTTGC CTGCTGTGA CTGTGTCATG 300  
 GTTCTCAGCT AGACTCGGTG GCGTGTTTGA TGGCCCAAGG ATCGTCTGCC CAGTGGGTGT 360  
 CCTGTACCC ATGTATGACA GACTGTACCC AAGATATCAG TCTTACGAAT AAGGCCACGA 420  
 TGAACACTTT GAGCTTTTTC TGTATCTAGC ATATCCCCAG GGTAGATGCT CAGGCAGGAA 480  
 ACTGGTGGGA GATGAGGGAT ACACAGATGG CTCCCNACAG GTGCTGTGAG GTGCTCAGGA 540  
 GTTTATCATC ACTTAACTGA GCTCGAG 567

(2) INFORMATION FOR SEQ ID NO:640:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC TTCATGGCCT AGCTCCGCAN AGGTAGGGAG GGAAGGGCCC CTCAAATANA 60  
 TGGAGGGAGC AACATCCCTC CAAGGGAAAG GGCTTCCAAN ACNAAATCCT GGACAGAAGC 120  
 GGAGCANGGG ATGGGCCTCC TTACAGAGCA GGAGGAAGAC AGCGCTCTTC NAANANGAAA 180  
 GGAGAGGGGC ATCAAGGTCC CTCACAATGG TGGAGGGGGC GGGGCTTCTC ACCGAAGGCA 240  
 GAGGAGGGGG CCTTAACTGA GGGGCAGGGC GCCTCCCAGG GATGAAAGGA GGAGGCCTGC 300  
 CGCAGAGCAG GGA AAAAGTT CAGTCCTTTC CTGCATTCTT TGGCTGAAGG GGTCTTAAGA 360  
 TGAAGGGTTC AGTGTCCAGA AGGAAAAAAC CCTGAGATGG GCCTAGACCA ACATGAACTC 420  
 AGCTAGCAAG TTCATACATG ACATGGGACT GATAGACTTG TGTGGCATCT CGAG 474

(2) INFORMATION FOR SEQ ID NO:641:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

GAATTCGGCC TTCATCCTTG AGAATATCAG AATTAGAAAG CCAGGTTGTT GAAATGCATA	60
CTAGTTTGAT TTTAGAAAAA GAACNAGTAG AAATTGCAGA AAAAAATGTT TTAGAAAAAG	120
AAAAGAAGCT GCTAGAACTA CAGAAGCTAT TGGAGGGCNA TGAGAAAAAA CAGAGAGAGA	180
AAGAAAAGAA AAGAAGCCCT CAAGATGTTG AAGTTCTCNA GACAACTACT GAGCTATTTT	240
ATAGCAATGA AGAAAGTGA TTTTAAATG AACTCGAG	278

## (2) INFORMATION FOR SEQ ID NO:642:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

AGGGAGAGGA GGCTGGGAAC AACGTGACCC ACTAAGGATT CTGCTCCAAG GACAGTGGGT	60
TTCCCGCTGG GCACCCACTC TTAAGTGCAG ATCGGGAGAC TAAGACAGGA ACACCGCCG	120
TGGGCAGGCC AGGCTGGAAG GATAGAGGAC TGTGGTCGAA CCAAGAGGAG GTTCAACTGT	180
GACTTATGCC AGTGTGGTCA CGAAGGCAGA TGGGTTGAAC TGAAAAAGGG GCACCGGTTT	240
CTGGCATGGA GGCACCCAAG GTCTTAGGAG GTGGATGGAC TGTCACATGG GCAAAGAAAT	300
GTCCCAGGGC AGGACTGCAA AGGCCACAGA AGAATAATT GGGAGAGAGA CAACCCATGA	360
GAAGTCACTC AGACCAGGT CAGAAACAGA ACAGGAACAA CAATGGACTC GAG	413

## (2) INFORMATION FOR SEQ ID NO:643:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 658 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

TTTCNTCCCT TNGAATGTTT GTCCCTTTTT CCTGTTTTTT TTTCGCACAA AATTNCAAGT	60
TNTACCAAGC AAACATTAAA TCCAAGTTGG AATTTTAATT AAGGAATTCG GCCTTCATGG	120
CCTACTGGTG CCTTCCCGGA AGGGCTCAGA GGCGGGCTCG GGCAAGCACT TTAACCTTTT	180
AAGCCCAACC AGATGAGTTG CCTGCAGTTT TGGAGGCCTT CAGAGCATTT CACTAGACCT	240
CTGTCTGTGT CGGTCCAATG TCTTTAGCCA AGCTTTGATT AAAGATGACT TCCTTGTTTG	300
CTCAAGAAAT TCGCCTTTCT AAAAGACATG AAGAAATAGT ATCACAAGA TTAATGTTAC	360
TTCAACAAAT GGAGAATAAA TTGGGTGATC AACACACAGA AAAGGCATCT CAACTCCAAA	420
CTGTTGAGAC TGCTTTTAAA AGGAACCTTA GTCTTTTAAA GGATATAGAA GCAGCAGAAA	480
AGTCACTACA GACCAGGATT CACCCACTTC CACGGCCTGA GGTGGTTTCT CTTGAGACTC	540
GTTACTGGGC ATCAGTAGAA GAATATATTC CCAATGGGA ACAGTTTCTT TTAGGAAGAG	600
CACCATATCC TTTTGCTGTT GAAAATCAAA ATGAAGCAGA AAATACCATT CCCTCGAG	658

## (2) INFORMATION FOR SEQ ID NO:644:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

```

GAATTCGGCC TCATGGCCTA CCAAAGAGTG TTATACATGC TCAGCAAACA ATATCTACAG      60
GAACTAGCCC TCAGGAAAGT AAAAAAAAAA AAAAAAAAAA GCAGCAGAGG GCCAGCCCAT      120
TCTTCTCATA GCTCACTGAT ACACTTGCTC ACATTCTGCC ACTACCTGCA AGGGAGGCTG      180
CGGAAAGGTA TCCCTACAGA GGCAGACGTG CCCAGCAAAA ACTTTGGCCG GTGGGGGGAC      240
ACTCCATGAC AAAAAATACA AAGGAGAGAA TGGGAGCTCG AG                          282

```

## (2) INFORMATION FOR SEQ ID NO:645:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 172 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

```

GAATTCGGCC TTCATGGCCT ACCTTTCTCT GACCTGTGCC CTCGGCCTCT TGGCCTCCAT      60
CGCCATGACC TTTGCCACCC AGGGCAAGGC ACTGCTGGCT GCCTGCACTT TTGGGAGCTC      120
TGAAGTACTG GCCCTCGCAC CTGACTGTCC CTTGACCCCC ACACCACTCG AG                          172

```

## (2) INFORMATION FOR SEQ ID NO:646:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 293 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

```

GAATTCGGCC TTCATGGCCT ACCAGAAACC GGCCAGGCAA GGAAAGAGGC CGGTCACCAG      60
AAGCCAGCAG GCGTGGGGTG TGATACTCTC TATAGCCACT ACAGGGCGCG CGCAGGTCCG      120
GGATCTCCCC AGTTGCTAAT CCCGGCTCTG CCACTCAATC CTATCCCTAG TTCCCAGCGG      180
CGGGTCCCCC GCCTTGCACT CTCCAGCCGT GCGGGGCCGG GAGCAGGCCT CCGGCCTCCC      240
AGACTTCTAG AGCCCGCCGG GCCCATCTTT GTACTCATCC ACCCCGGCTC GAG                          293

```

## (2) INFORMATION FOR SEQ ID NO:647:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 272 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:

```

GAATTCGGCC TTCANGGCCT ACAGAAACAG AAATGCTAAC TGAAATGTAT TCTTCTAACA      60
AAGCATTCTT AACTTTCTAG AATGTAGTCT TTCATTTTTC TTTATCTTTT TTCAGCTTAT      120
TCCCAAATAT ATACTTTGGC CATTTAAATA AATGGCCAAA GAAATGGCCA AAAAATGCTT      180
TATTTAGTTT TTGTTTTATT ATGAAGGATG ATTACTCTTT AATGCTGCTA AATTCCTTTT      240

```

TAGCTCTGTA TTCACTTCA AGAAAACG AG

272

## (2) INFORMATION FOR SEQ ID NO:648:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 256 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:

```

GCGAGCTGTT GGGATTACAA AGTTGCGCGT TTCATCGGTA CAACTGGTC TTTGAACCTC      60
CTTTGTGAGA GCAATTGTAG TGTCCAAATT GTTAGGGAAA AAAAAAAAAA AAAATCCCAA      120
GGAGGAGGGT TTTTCCCCCT TCCCTGTTTG GTTTATCACA GCATTGTGCT TTTTTTTGG      180
CACAGCTTTT TACGTTCTT TCCATTGAGC CATCACAGAG CCTGTTCGG GTGGAAACCA      240
ATCCACACGC CTCGAG                                         256

```

## (2) INFORMATION FOR SEQ ID NO:649:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 266 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:

```

GAATTCGGCC TTCATGGCCT ACCACCTTG GCCTCCCACA GTGCTGGGAT TCCAGGCGAG      60
AGTCCCTGCG CCCAGCCCCA CTTGTCTATT CTGTTTTTTG CTGCCTGTTT TTGGTGTCTT      120
ATCTGCACAT GAATATTTAT AGCAGCTTTA TTCATAATTG CCAAACTTG GAAGAAACCA      180
CAATGACAAT GTCCTTCTAT AGGTACACCC ATACAATGGA ACATTCAGTG ATAAATGAG      240
CCATCAAGCC ACCCAAAGG CTCGAG                                         266

```

## (2) INFORMATION FOR SEQ ID NO:650:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 490 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

```

GATTTCTCAG CTTTGAACA GAGTGGACTT GTCAATATCA GAGCAGAGCA CCAAACTGAA      60
GATGTCTCAC AGAGACAGTA ACCACCAGCT TCAGCTTTTG GACACTAAAT TTAAAGGTAC      120
AGTTGAGGAA CTCAGTAACC AGATATTATC TGCACGGAGT TGGTTGCAAC AGGAACAAGA      180
ACGATAGAAA AAAGAGCTTT TACAGAAAAT TGATCAGCTT TCCTTGATTG TTAAGGAAAA      240
CAGTGGAGCC AGTGAAAGGG ATATGGAGAA GAAGCTCAGC CAGATGTCAG CCAGGCTTGA      300
CAAAATAGAA GAGGGTCAAA AGAAGACTTT TGATGGTCAG AGAACAAAGC AAGAAGAGGA      360
GAAGATGCAC GGGCGAATCA CCAAGCTGGA GTTACAGATG AACCAGAACA TCAAGGAAAT      420
GAAAGCAGAA GTTAATGCTG GGTTCACAGC CGTCTATGAA AGCATAGGAT CCCTCAGGCA      480
AGTTCTCGAG                                         490

```

## (2) INFORMATION FOR SEQ ID NO:651:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 498 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

```

GAGATAGAGG GGACCCCTGGC TATGGACATT TTGAATTATG TCGGGAGAGC TGATGGANAA      60
AGAGGCTCCN GGAGGACTGG TTAAACTGAA GCCNGGAATG AGATGAAATG TATAAAATTC      120
TCTTGAATGA TTATGAATAT CGTCAGAAAC AAATCNTAAT GGAAAATGCA GAACTTAAGA      180
AGGTTCTTCA ACAAATGAAA AAGGAAATGA TTTNTCTTCT TTCTCCCAA AAGAAGAAAC      240
CTCGAGAAAG AGTAGATGAT AGTACAGGAA CTGTTATTTC CGATGTTGAA GAAGATGCCN      300
GGGAACTAAG CAGAGAGAGT ATGTGGGACC TTTCTGTGA AACTGTGAGA GAGCAGCTTA      360
CAACAGCAT CAGAAAACAG TGGAGAATTT TGAAAAGTCA TGTAGAAAAG CTTGATAACC      420
AAGTTTCAA GGTACACCTG GAAGGTTTA ATGATGAAGA TGTAATCTCA CGACAAGACC      480
ATGAACAAGA AACTGAAA

```

## (2) INFORMATION FOR SEQ ID NO:652:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

```

GAATTCTTCT TTCTCTATAA ATTTGCCTAC TATTGAAGAT TCTTCAGAGG AAGAAGAATT      60
GAGAGAGGAA GAAGAATTAT TAAAGGAGCA AGAAAAGCAG AGGGAAATAG AACAGCAACA      120
AAGAAAGAGT TCTAGTAAAA AATCAAAGAA AGACAAAGAT GAACTTCGAG CTCAGAGAAG      180
AAGGAAAGG CCAAGACTC GAG

```

## (2) INFORMATION FOR SEQ ID NO:653:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

```

GGAAAGAAAN GGACAAACCT ATAAATTAAC TCAACCTATA TCTCCCTTGA AAATACTTTC      60
AGGCTCCACC AAAACGTAGA ACTGAAAGCA TGTATTTTGG AAGAAAGAGA TACATTTTGT      120
ATGCTTTCTT TTCCTTTTGT AGATTCCAG TTTATTTTCT AAGACTGCAA AGATCACTTT      180
GTCACCAGCC CTGGGACCTG AGACCAAGGG GGTGTCTTGT GGGCAGTGAT GGGGNCCTCG      240
AG

```

## (2) INFORMATION FOR SEQ ID NO:654:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

GATTCGGCCT TCATGGCCTA GGGAGGAGAA GAAGGGGGAG AAATCACAAA GAGATTGGGG	60
AGGAGATGAA GTAGCAGGGC TCAGCGATTC TTCAATTCC AGTGCACACC CAATAGTGTG	120
TTGGAAGAAT GCACACTGTT CGGGATTGTG GGGAGAATTG TCCCATGACA AAGGAGGCAG	180
GGTTATGCTT GTTATAGTCC AATAAGCCGT GCCAGTCAAA CAAGAACCCA CACTCCTCGA	240
G	241

(2) INFORMATION FOR SEQ ID NO:655:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 278 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

GAATTCGCCC TTCATGGCCT AGTGGTGAGA CTGAGCAGAT TTAATTAATG TCTGTTATGT	60
TCAGGGCACA AGGGTGAGCT CTTGCGAGGG GCTGATGCAC TGGGTGTGGA GCTGAGCAGA	120
GAGGCCTAAC CAGGATCAGG CAGGAGGGCA GGGATGGTGG CAGCCATAGG AGGGCAGGGT	180
AGGGTAGGGC CTCTGAGGAG GAGGGAAAAA GTGAAGGAGA GGCTTTGGAC CTGGTGACAG	240
AGTGATCAGA TGACAGAGGG GTTTTGGGA GACTCGAG	278

(2) INFORMATION FOR SEQ ID NO:656:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 224 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:

GGAAGGAGAA GTGGAGAAGA AATCAGTCAG CCGCAGTGAA GAGCTCAGAA AAGAAGCAAG	60
ACAATTAAAA CGGGAACCTCT TAGCAGCAAA ACAAAAAAAA GTAGAAAATG CAGCAAAACA	120
AGCAGAAAAA AAGAAGTGAA GAGGAAGAAG CCCCTCCAGA TGGTGCTGTT GCCGAATACA	180
GAAGAGAAAA GCAAAAGTAT GAAGCTTTGA GGAAGCAACT CGAG	224

(2) INFORMATION FOR SEQ ID NO:657:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 253 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:

ATACAGTAAT CAAAGTAAGT AATATTTCAA TCCAATATTT TTAAAAATCA GAATTAATGC	50
AAAAAAAACC ATGATGAACA AAATATTAAA ATTTAAAATA AAGACAGGAT TAGTATTACT	120
GAGTTTTCCT TTTGTCCAG GCTCTAATAT GGCTTGGCAT GGGGCAGAAC ATTACAACAT	180
ACCAGTCGTG TCATGGTGCC CAAGGCTCCA CAGACCTCAG TGGCTCCCTG CTGCCTGCCA	240
CAGCAATCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:658:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:

GAATTCGGCC TTCATGCACT TTGAGCATC AGTTTCTTTT CACTCCTTCT TCATGTGCTA	50
TTCTTTCCAA ATCTTTCCCA CCTTCTTCTT TCTCTCCTCT GTCTTTTCTT CTCCCTCTTC	120
TGTTGTTCTC TGGTTTCCAT CTGTTTCTCC TTCTCCTTCC CCATTTCTCA CTATCCTCTC	180
TTCTGTCTCC TCACTTACTT CTCCATCCCT CCTCTCTCCA GCCCTCTCTC CCCCCTGTCT	240
CGAG	244

(2) INFORMATION FOR SEQ ID NO:659:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 75 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:

GAATTCGGCC TTCAGCCTAG TCTCAAACCT CAAGCAAACC TCCTGCAATC CCAGCGCTTT	60
AGGAGGCCGC TCGAG	75

(2) INFORMATION FOR SEQ ID NO:660:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:

GCNTTCATGG CCTAAGTTCA CCTTTAANTC TTTCATGACC ATTTCCAGAN GCCCTTACCG	60
TGGGCTATCT TAGCTTGATG TGCTAATCAA GTTCCCCTTA ATTTGACATA CTAGAATCTA	120
ATACTAGAGG CAGCATGACA TTATTAAGGG GGAGGAGGTT GAGAAGCACT AACCTCGAAG	180

```

TTAGAAATTC TGGTTTGTCA TCCAGTCTG CTAATTAGCT TTCTGATTGA AGACAAAATA      240
CTTTTCTGT GCCTTCTGGG GGTCAAATTC GATTTTAAAG ATTCTCTCAG TTGGAAGAAA      300
TCTAACTAAA AATATACTTA AAATAATTCT TTGGTAGTAT ATTATTTTGA AATTTGGTCC      360
AGAATCCTAT TTGTTTATTC CTGTAGTATA CATACATCTG TAGTTACCCA GCAAGCGCGC      420
TCCCTATAGT GAGTCGTATT AATTCAGAG                                     450

```

## (2) INFORMATION FOR SEQ ID NO:661:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 495 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:

```

GAATTCGGCC TTCATGGCCT AGAGAAAAAA AATTAGAGTG ATTTCAGGAC TCAAAGGAAG      50
AGCCTTGCAA AGAGTTGGGA GGATTAAACT CTATGGATTG AAGCTCTGCC TGCAAAATAA      120
CATCGCTGGG AATTTAGACA CAAATTAGGA ATATTCTGGA ATTCATTAG CAGCAAATCT      180
CCTGACTAGT TGTCAAATGG AGCTGTTCTA ATTGGCCTGT TCTAAATGGG CCTGTCCTAA      240
TTGCAGAAAT ATTGCAGAAAT ATGTTTTTAG TAAGCTCTCT ATAGAAAGTC ACCTCTGAGT      300
TGCTCAGCAT TTAGATTCAA ATATTCAAAT GTTTTTTAAA AATGCCAGCA TATCAATTAT      360
ATTTGAAGAA CAGTATAGAG GCTTGAAACA TGCCAAACAG CAGGGAACAG GAATAACCTT      420
TAATGAGTGC CTACTCTGGT GCAGGTCCTT TTACACACAT TACATTATGT GATCTTCACA      480
ACAAACCGAC TCGAG                                     495

```

## (2) INFORMATION FOR SEQ ID NO:662:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 474 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

```

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT ACGAGGAAAG      60
GTCAGAGAGA TGCGAAGTTT CTGGCTTTGA AGATGGGGAA AGGTCTCCAG CCAAGTGTGA      120
GCAGCCTCTA AGAGTCAGAG AAGCCAAGGA ACAGCTTCTA CTCTAGAGCC TCCAGAAGGA      180
TGGCAGCTCT GCTGATGTCT GGCCTTATCT CAGGGAGCCC TGTGGATTG TGAGCTGGTG      240
GAACTGTGAG ATAATGACTG TGGTGTTTAA GCCAGTAAGT TGGTGTAATT TGTTAATGTG      300
ACTGCAGAAA CCAATAGAC CGAGTGCCTG TTGGGCTCTC CCTGTACAAA GGCAGAGGGA      360
CAGCAAGTGT GAGCAGGCCC TGCTGTGAGG TAGAGGGCAT CCTCTGAAGT GTGTGGGGAA      420
GGGGGAGCCT CACATGAGCC CAGGGCTGCC ACATGTTTCA TCTGAGCGCT CGAG      474

```

## (2) INFORMATION FOR SEQ ID NO:663:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 360 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

```

GAATTCGGCC TTCATGGCCT ACTCTACTCG TCGGGTGCTT CTTCTCCTTG GCATACAGCT      60
CACAGCTCTT TGGCCTATAG CAGCTGTGGA AATTTATACC TCCCGGGTGC TGGAGGCTGT      120
TAATGGGACA GATGCTCGGT TAAATGCAC TTTCTCCAGC TTTGCCCTG TGGGTGATGC      180
TCTAACAGTG ACCTGGAATT TTCGTCCTCT AGACGGGGGA CCTGAGCAGT TTGTATTCTA      240
CTACCACATA GATCCCTTCC AACCCATGAG TGGGCGGTTT AAGGACCGGG TGTCTTGGGA      300
TGGGAATCCT GAGCGGTACG ATGCCTCCAT CTTTCTCTGG AAAGTGCAGT CAACCTCGAG      360

```

## (2) INFORMATION FOR SEQ ID NO:664:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 379 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:664:

```

GAATTCGGCC TTCATGGCCT ACCCTGTGAA AGTGGTGCTT GACTGTCTGA GGAGGGACGT      60
GGGCTAGAGA GTTCTCCCTG GGCTCAGGAA GGATAGCTTG GTTGTAAGG GAATGCAGTG      120
TGGATGACAC TGAGGCTGCC AGAGGTCTTG GGTGGCTGCT TCCTAGGTGG CTTGATGAAA      180
ATGGGAGGAC CAGAAAGAATT GGAAGTTGCA GCCAACTGAT GGCTGCTACT GAAGATTCCT      240
GACAGGAAAT AGAAAATAGG ATGTAAGACC CTCCTCTCCT CCTTCTGGCT CCCAATATTT      300
TCTGGTGATT CCCATTGGTG GATGCTAACA GGAATCACC TGGCAAGGGA GCTTGAGACA      360
TGAGTTTGA GAGCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:665:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 206 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

```

GAATTCGGCC TTCATGGCCT AATCACACAC CAACAAAACA CATTTATTTT GTAATTTATT      60
TTCTCTGAT ATTTATGCTA GAAAAGTCCA TTTGTATTTT TTTTACTATG GCATGTTTTT      120
ATAGGTTCTG TCTTATTTT ATTAAAGTCA TGTTTTTACT CTTTATTATC AGGAGTTCCT      180
ACCATATTTT ATNGCAAGC CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:666:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 469 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

```

GCCGATGAGG ACCAAGATNA AAACAGTGCT CAAAAGTCGT GGCCGCCAC CTACAGANCC      60
GCTGCCCGAC GGGTGGATCA TGACATTCCA TAACTCTGGA GTCCCGGTGT ACCTACACAG      120

```

AGAGTCTCGG GTGGTCACCT GGTCCAGGCC ATACTTCTTG GGAACGGGAA GCATACGGAA	180
ACACGACCCT CCTCTGAGTA GCATCCCTTG TCTGCATTAT AAGAAAATGA AGGACAACGA	240
GGAACGGGAG CAAAGCAGTG ACCTCACCCC TAGTGGGGAT GTGTCCCCCG TCAAGCCCCCT	300
GAGCCGATCT GCAGAGCTGG AGTTTCCCCT GGATGAGCCT GACTCTATGG GTGCTGACCC	360
GGGGCCCCCG GACGAGAAAG ACCCACTAGG GGCTGAGGCA GCCCCTGGGG CCCTGGGGCA	420
GGTGAAGGCC AAAGTCGAGG TGTCAAAGA TGAATCCGTT GATCTCGAG	469

## (2) INFORMATION FOR SEQ ID NO:667:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 331 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GAATTCGGCC TTCATGGCCT ACACATACAA CAAACCGAAG CTTTCCGAAC CCGAAGAGGA	60
ACTTCTCCAG CAATTTAAAC GGGAGGAGGT GTCCCCAACA GGGAGTTTCA GTGCCACTTA	120
CTTGTCGATG TTCTCTTAA CTGCTGCCTG CTTATTTTTC CTAATACTGG GACTGACTTA	180
CCTAGGAATG AGAGGGACAG GAGTATCTGA GGATGGAGAA CTCAGCATAG AAAACCCCTT	240
TGGTGAAACA TTGGAAAAA TACAAGAAAG TGAAAAAACT CTTATGATGA ACACATTATA	300
TAAGCTTCAT GATCGATTAA CACAGCTCGA G	331

## (2) INFORMATION FOR SEQ ID NO:668:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 471 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC TTCATGGCCT AGGACCCAAA GTCCGCGTGG AACCGCGATA GGGATCTGTC	60
AGGGCCCGCG GCCGGGTCCA GCTTGGTGGT TGCGGTAGTG AGAGGCCTCC GCTGGTTGCC	120
AGGCTTGGTC TAGAGGTGGA GCACAGTGAA AGAATTCAAG ATGCCACCTA ATATAAACTG	180
GAAAGAAATA ATGAAAGTTG ACCCAGATGA CCTGCCCCGT CAAGAAGAAC TGGCAGATAA	240
TTTATTGATT TCCTTATCCA AGGTGGAAGT AAATGAGCTA AAAAGTGAAA AGCAAGAAAA	300
TGTGATACAC CTTTTCAGAA TTA CTGAGTC ACTAATGAAG ATGAAAGCTC AAGAAGTGGA	360
GCTGGCTTTG GAAGAAGTAG AAAAAGCTGG AGAAGAACAA GCAAAATTTG AAAATCAATT	420
AAAAACTAAA GTAATGAAAC TGGAAATGA ACTGGAGATG GCGCACTCGA G	471

## (2) INFORMATION FOR SEQ ID NO:669:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 389 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:



```

GAATTCGGCC TTCATGGCCT AGAGAGGTTG CTCATTGCTC AGAGCGTGCT GCCCACCCTC      60
CACCCCTGCA TGGCAGAAAC TGTGCAGGGG ACGAGGCCAA GGAATCAGGA GACCCAGAGG      120
CAGGGGTGGC CCGGAGACGG TGAAGAAACC AAGACGCAGA GAGGCCAAGC CCCTTGCCTT      180
GGGTCACACA GCCAAAGGAG GCAGAGCCAG AACTCACAAC CAGATCCAGA GGCAACAGGG      240
ACATGGCCAC CTGGGACGAA AAGGCAGTCA CCCGCAGGSC CAAGGTGGCT CCCGCTGAGA      300
GGATGAGCAA GTTCTTAAGG CACTTCACGG TCGTGGGAGA CGACTACCAT GCCTGGAACA      360
TCAACTACAA GAAACGGGAG TATCTCGAG                                     389

```

## (2) INFORMATION FOR SEQ ID NO:670:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 209 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:670:

```

GAATTCGGCC TTCATGGCCT AGTGTACAA AATATAGAAA GAAAAGAACA AACAAAAAAA      60
GAGACAAAGG TGGAAATACCT TTTTGAAATA AAAGAGAGCT AGCAATGCAG TACATGGTCC      120
TTGCCCTATT ACTATCCATC CTCATCCTAG CAATAATCCC CATCCTCCAT ATATCCATAC      180
AACAAAGCAT AATATTTGCG CCACTCGAG                                     209

```

## (2) INFORMATION FOR SEQ ID NO:671:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 271 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:671:

```

GAGTTCATTC AAGATATTTT TCACCTGCTG TTCAGGAGCT TTGATGTGCG TCACCATTC      60
TGGCATGTTT ACGCTGTTCC TGTGCAGGTA TTTCAGGAAG ACGTCTGCAT TCCTCCGAGC      120
AAGGGTGCAA GCCTTCAGGA ATGCCTCCTT CTGCTCCAGG TGCTTGCTGA TCATGGGCGT      180
CACGTGGTCC GTCTCAGAGT TTGGGCCAG CTTATCGGCC CCGCCACACC AGTCTTCTTC      240
TCTCTGTGAC TCCCTGTTCC AGGCTCTCGA G                                     271

```

## (2) INFORMATION FOR SEQ ID NO:672:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 382 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:672:

```

GAATTCGGCC TTCATGGCCT AAGATAAATT TGACAAAGTT AACTGAAATT TATCTGGTCC      60
ATTTTATTCA TGCTACTAAG ATGGGAATCT TTAACACAA GGGTCAGCAA GCCTTGGCCC      120
ATGGATTGGC CACCTGTTAC GTAAATAAAG TTTCTTTGAA ACAAGCCTAC ACTCATTCAT      180
TTATGTTTTG TCTGTGGTTG CTTTCCACAA CTGCAGAGTT GTATGGCTTG CAAGTCTAAA      240

```

```

AACATTACT ATTTGGCCCT CTAAGAAAAA GTTAAGACAC CTAGTCTAAT GGCCTTTTGG      300
GAAAAAACAA ATCACTAACT CATAATCATT TATATCCATT ATTTTCTGCA TAAATGTAAT      360
GCTATTGTAC AGGGTACTCG AG                                              382

```

## (2) INFORMATION FOR SEQ ID NO:673:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

```

GAATCGGCC TTCATGCCTA CCAAATTTGT CTAAGCACTG GCCAGTCTGT TGTGGGCATT      60
GTTTCTACA ACCAATCTG GGTTTTTTC TTCTTCTTT AAACATAGAG GTACCAACCAC      120
AAGGGATGCC CTA CTCTCTC GCAGCTCTTG AAAGCATCTG TTTGAGGGAA AGGTCTCTGG      180
GCAAGCAAGT GGTATTGTTG ATGCTTGCT TCCCTTTTTC CACCTGGGAC ATTGCAATCA      240
TAAATAACA GTAAATTCCA AACCTCAAAA ACTATTATGG CTTGAGCACA GCTGAAATCT      300
AGCAGAGTTT AACTCTTCTG CCTCCATGTC TGTCACCTAT AATTCAGGTT CTGCTGTTGG      360
CTTCAGAAC A TGAGCAGAAG AATCGTTT TA TGCTAGTTAT TGCATT CATG GTTGAAACTC      420
AACTTAGGGA AAGGGTTCCA ATGTATTAAG CAATGGGCTG CTTCTCCCCA ATCCTCCCTA      480
ACAAATTGTT GTGTGGACTT CTCATCTAAA AGGTTAGTGA CTCGAG                      526

```

## (2) INFORMATION FOR SEQ ID NO:674:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 131 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

```

GAATGCTTC TCAATTTACC CGAGATTCA TTCGAGATTC AGGTGTTGTC TCACTTATTG      60
AAACCTTGCT TAATTATCCA TCCTCTAGAG TTAGGACAAG TTTTGTGGAA AATATGATTC      120
ACTGGCTCGA G                                                              131

```

## (2) INFORMATION FOR SEQ ID NO:675:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

```

GAATCGGCC TTCATGGCCT ACCTAATCTT CCTTTTCTTT TTAGCATTTT TGGGCTTTTC      60
AAAGCAATCT CCCCACAAAA AGAATCATTT GGTTTTGGAA AAGAAAACAG AATCAGCAAC      120
TTTTCGGGTG TGTGGTGAAA ATGTCACGTG TGTGGAATAC GCTATCTCCT GGCTACAAGA      180
CCTGATTGAA AAAGAACAGT GTCCTTACAC CAGTGAAGAT GAGTGCATCA AAGACTTTGA      240
TGAAAAGGAG TATCAGGAGT TGAATGAGCT GCAGAAGAAG TTAATATTA ACATTTCCTT      300

```

GGACCATAAG AGACCTTTGA TTAAGGTTTT GGGAATTAAC AGAGGACTCG AG

352

(2) INFORMATION FOR SEQ ID NO:676:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

GAATTCGGCC TTCATGGCCT AAACCCATAA AACAGGAATT CCTTATAATC CTAGAGGACA	60
AGGCATTATA GAATGGGCAC ATCAAACATT ACAACGAATG TTGAAAAGAC AAAAAGGGGG	120
TATAGGAGGC CAACTACCAC CTCAATCAAA ACTACATTTA GCCTTATTTA CTTTAAAT	180
TTTGACTCCT GGTACGGATG GTAAGACTCC AGCAGAAAGA CATTGGCAAG TGTTAGAGGA	240
AAAGACTCGA G	251

(2) INFORMATION FOR SEQ ID NO:677:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 331 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

GGGCATTGTC AGTTTTCTTC CCTGCTGCAT GTAATGTCTC AGAATCAACA TTCTTTTAAA	60
ATCTAGACTA TATTTTGAGG CAATGAATTA CTTATATTCA ACTTAGGCTT GTTTTGACAT	120
TCAGTAGAAC TTAAAGTTCA ATCTAAAGGC TTCAGTCCAC ATTTTTTAT ACGTTGTATT	180
TTAAAAACGT TTGAAAGGAG TCTTACACCT GTATCATGAA AACTGAATCC TTTTGAAATA	240
CCACTATATG AAGAGAGAGA TGAAATTTAG TGAACAGAAT TGAAAAGGTG CTCATAATTT	300
CACTATGCAA ACTTACCCCA GTCAACTCGA G	331

(2) INFORMATION FOR SEQ ID NO:678:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 262 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

GAATTGAACA ATGCTGACAG GCTGGTANTC CTGCCCTGAA GCAACTCACA GACTCATAGT	60
TATAGAACAT CTTTATCTTT AGTTAATCCA TNGCACAGCA TTGGCCAAGG GTCAATACCT	120
TGTAATAAGC ATGTGTGTAT TGGTCAGGT TCTACAGAGA GACAGATCAA TAGGAGCTAT	180
CGATAGATAT AGACATATGA GAGGGGGTTT GTTAGGGGAA TTAGCTCACT TGATTACAGA	240
GGTTGAGAAG TCGCTCCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:679:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 336 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:679:

```
GAATTCGGCC TTCATGGCCT AGCAGCCCGA GGCCTTGAGG CCACTGCCTC CCCAGGGCTC    60
CTGAAGCCAA AGAATGGAAG TGGTGAGCTG AGCTACGGAG AAGTGATGGG TCCTTGGAG    120
AAGCCTGGTG GAAGGCACAA ATGCCGCTTC TGTGCCAAAG TATTGGCAG TGACAGTGCC    180
CTGCAGATCC ACCTTCGTTT CCACACGGGT GAGAGGCCCT ATAAGTGCAA TGTCTGTGGA    240
AACCGTTTTA CCACCGTGG CAACCTCAA GTGCATTTC ACCGGCATCG TGAGAAGTAC    300
CCACATGTGC AGATGAACCC ACACCCAGTA CTCGAG    336
```

(2) INFORMATION FOR SEQ ID NO:680:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 389 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:680:

```
GAATTCGGCC TTCATGGCCT AAATTAAAGA TGATTTTTTT AATGTGAATA AAGTTATGTT    60
CTGATAGTTT GTACAGAAAA AATAAAATGG ATGCCCATGT TTTATTGCTA TTAATAAATG    120
TCAAGATTGT ATGCTATTAT GTCTGTAAAT TTTCTTTTGT TGGTGTAAT ATGGAAATGC    180
CACATTGGTT AAGTGCCATC ATTGTGAATG CAATGTGTCA CTTGAAAAGA GATTTGAAGA    240
AACTGACAAC TTCAAAAACA AATGAGAAGC CCAAGGAAGT GTGAGCAATT AAAAGCAAAC    300
CGCGACACCC TTTGTCTCCA CCACACATAG TGTACTTTGG AAGCACAACG TCCAGGCTGG    360
TACCGCAGCG CCATGCCCAT TCCTCGCCG    389
```

(2) INFORMATION FOR SEQ ID NO:681:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 400 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:681:

```
GATTTCTCTG TTGACTTCTG CAGTGAACCA CCTCAAAGCC AATGTTAAGT CAGCTGCAGA    60
CTTGATTAGC CTGCCATACCA CTGTAGAGGG ACTTCAGAAG AGTGTAGCTT CCATTGGCAA    120
TACTTTAAAC AGCGTCCATC TTGCTGTGGA AGCACTACAG AAAACTGTGG ATGAACACAA    180
GAAAACGATG GAATTACTGC AGAGTGATAT GAATCAGCAC TTCTTGAAGG AGACTCCTGG    240
AAGCAACCAG ATCATTCCGT CACCTTCAGC CACATCAGAA CTTGACAATA AAACCCACAG    300
TGAGAAATTTG AAACAGGATA TCCTGTACCT TCACAACTCT TTAGAGGAGG TAAACAGTGC    360
CCTAGTGGGG TACCAGAGAC AGAATGATCT TAAACTCGAG    400
```

(2) INFORMATION FOR SEQ ID NO:682:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

```

GGAGATCGAA AATTGAAACT CTCAAAGAGA CAACAAATAG CATGGTAGAA TCAATTAAAC      60
ACTGCATTGT GTTGCTGCAG ATTGCCAAAA GTACTATTAA TCCCGTAGAT GCAATATATC      120
AACCTAGTCC TTTGGAACCT GTGATCAGCA CAATGCCTTC CCAGACTGTG TTACCTCCAG      180
AACCTGTTCA GTTGTGTAAG TCAGAGCAGC GTCCATCTTC CCTACCAGTT GGACCTGTGT      240
TGGCTACCTT GGGACATCAT CAGACTCCTA CACCAAATAG TACAGGCAGT GGCCATTCAC      300
CACAACTCGA G                                     311

```

(2) INFORMATION FOR SEQ ID NO:683:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 308 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

```

GTGAGGGGTT CCGTGAAGTA GGTCTGAGC TGCTGTTGAT GTGCTATACC TCCTTCAATT      60
CTCAGCTCTC AAAGGGGAAA ACAACTGCAG AGGATGGGAA ATGCTATACT GCCATGCCTG      120
GAAACACCCA CAGGAAAATT ACCAGTTTGG AGCTTGCTCA ACTGCAAGAA AAAGTGAAGG      180
AGACAGAAGC AGCCATGGAA AAATTAATCA ACAGAGTGGG ACCTAATGGT GAGAGAGCAC      240
AGACTGTGAC TTCTGACCAA GAGAAACGGT TGCTACATCA GCTCCGAGAA ATCACCAGAG      300
GTCTCGAG                                     308

```

(2) INFORMATION FOR SEQ ID NO:684:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 448 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

```

GCTCCGGACA ATGAAACATA ACCAATACTA CCAATCAATA CTCATCATTATAAATCATAA      60
TGGCTATAGC AATAAACTA GGAATGGCCC CCTTTCACCT CTGAGTCCCA GAGGTTACCC      120
AAGGCACCCC TCTGACATCC GGCCTGCTTC TTCTCACATG ACAAAACTA GCCCCATCT      180
CAATCATATA CCAAATCTCT CCCTCACTAA ACGTAAGCCT TCTCCTCACT CTCTCAATCT      240
TATCCATCAT AGCAGGCAGT TGAGGTGGAT TAAACCAAAC CCAGCTACGC AAAATCTTAG      300
CATACTCCTC AATTACCCAC ATAGGATGAA TAATAGCAGT TCTACCGTAC AACCCGTACA      360
TAACCATCTT TAATTAACT ATTTATATTA TCCTAACTAC TACCGCATTC CTACTACTCA      420
ACTTAACTC CAGCACCACG GGCTCGAG                                     448

```

(2) INFORMATION FOR SEQ ID NO:685:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 312 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:685:

```

GTTGACAAAC AAGCTCAAGC TGCGGATAAA ATGAAGGAGC AGGAAGACCT GGCCAAGGTG      60
GTATCTAAAG AAGAATCAAT TGTTTCATCA TTACGATTAG CCTATAAGGA TCTTGAAATT      120
CAAATGAAGA AAGACGAAAA GATGAACATT AGTGGCAAAA AAAATGTTGA CTCAGACAGA      180
CTCGGCATGG GATTGGAAA TTGCAGAAGT GTTATTTTAC ATTCAGTGAC TTCAGATATG      240
CAGACCATAG AGCAGGAATC ACCCATTATG GCAAAACCAA GAAAAAAGTA TAATGATGAC      300
AGTGAACCTG AG

```

(2) INFORMATION FOR SEQ ID NO:686:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 264 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:686:

```

GTAATGGCAC AATGGATTCA AATGGGACAT TTGTTAATGT AACAAATGAGC ACATTAACT      60
GGAAGGATTA CATTGGAGAT GACAGTCACT TTTATGTTTT GGATGGGCAA AAAGACCCTT      120
TACTCTGTGG AAATGGCTCA GATGCAGGCC AGTGTCAGAA AGGATACATC TGTGTGAAGG      180
CTGGTCGAAA CCCCAACTAT GGCTACACAA GCTTTGACAC CTTTAGCTGG GCTTTCCTGT      240
CTCTATTTTC ACTCATTCTC CGAG

```

(2) INFORMATION FOR SEQ ID NO:687:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 277 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:687:

```

GGGAACAGCA GTTCCTATGG CTTTTTTTTT TTTTTTTCTG TGTATGAGCA ATTCGACTCA      60
GTGGGATGAT ATTTTCTTTT ATAATCAATT AATGTTTGCG ATACCGTGTA CTCAAATATT      120
CAATGTCAGC TGTCAGCTAC CATTGGGATC CATCCACAG ACCATCAAAA TGTAATTTTG      180
GGCTGAATTA GTCCTATGCC AAGACTTGTG GGTGGATCCA GCAGCAGTTG GGAACACCGT      240
GCCAGGCCTG GTGTATGTGC TCACGAACAC ACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:688:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 393 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:688:

GAATTCGGCC	TTCATGGCCT	AAATAGTTTA	GTTCTCTGGT	GCAATTTGAA	GTATATCTTA	60
TAGTCACTTT	TAGTAATGTG	TGTTACTTCC	CTGTAAGGAA	TAGCAATGTT	ATACTTCTCC	120
TTTTGCAGTG	AAGAAATTGA	GATGTAGAAA	GGAAGAGACC	TGCCCCAAGT	CAAGAGACAA	180
GGCAGTGGAA	AGCCTGAGAT	TAGACTTGTG	GTCCTTTAGA	TTTTTCATCT	GTTGTTCCACC	240
ACTGAGGAGC	CAGCTTTCTG	TTTGCTGGAG	ACAGTTCAGC	CTAATGGAAT	TTTCTCTGCC	300
AGATGTCCAC	ATTGTGTTAG	GTGATGATTC	TAACCATCCT	CTAATACCCA	TTCTCTCCCA	360
AAGTGGCCCT	TTAGTTCCCC	ACCAGAACTC	GAG			393

(2) INFORMATION FOR SEQ ID NO:689:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 477 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:689:

GAATTCGGCC	TTCATGGCCT	ACTGTTCTGC	TCCTCCCAGA	CAGAGCCTTT	CCCTCAGCCC	60
AGGGGGTCAG	GGGGTGAGGG	AAAGGCTCTG	TCTGGGAGGA	GCAGAACAGC	AGAAGAGAGG	120
AGGAGGCAGG	GAGTTACAGG	AACCTGGGGT	ACCAGGCTGC	TGGGAAGATG	CAGATTATGA	180
CAGAGCTTGC	ACGATGCTGG	CACCCCATGC	CAACCACTCT	ACGTGGCTTT	CCTCTTCGGA	240
GAGGTGGTGG	GCTCCCTTCT	TCACTGTGCC	CTCCCTCCTC	TGGCCACTAG	GGGTGGGAAA	300
TACGAGTGAG	AATCCTTCCA	GATTTACTTC	CGCCAATCCA	GAGGTACAGG	CTTTAGGCA	360
AGGGGCAGAG	AACTGCCCAA	TTTGCTGCTT	CATGGCCTAG	GGGTGGGGTT	CCTTAGGAGC	420
TGAAAAGTTG	AACAAGGTGT	GTGAGCAGGT	GGCTTGTTC	TTGGTTTCAA	GCTCGAG	477

(2) INFORMATION FOR SEQ ID NO:690:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:690:

GAATTCGGCC	ATCATGGGCT	AAGACGTGGT	ANTGACATGC	CTGTAGACCC	AAGTATTTGG	60
GAGGCTGAGG	TGAGAGGTTT	GCTTGAGCCC	TGGAAGTCGA	GGCTTCAGTG	AGGCAAGATC	120
ACACCACTGC	ACTCCAGCCT	GGGAGAGCAA	GACCCGTGCT	CCAAAACCAA	AAAAAAGGG	180
AAAAAAGTAA	ATGTTATAGA	TACTTGCTAA	GGGCTTTGTA	TATACTTATT	ATTGTTATTT	240
CTCAGCACGT	ATGTAGCAGA	TGAGGAAATG	AAGGCTAAAG	GTCAATATATN	TACAAAGTGG	300
GGAGGTCAGA	CTTTGAACCC	ACAACCTGAC	TGTGGAGCCA	CTTCAGTATA	CTCTCTCCCC	360
ATAAGAAAGT	TCCAATAGAA	AAAAAATGCT	ACTTAAGTAG	GGAAATCACA	AAATAAGTGC	420
CAATGAACAA	TAAATGTTCA	ACCTCACTAC	AGTTAAAAATG	TATATTAAAG	CAAGAGTTGA	480
GATGACACTT	TTCTTTATAA	AACAGACAGG	GATTGAGGGA	CATTGGGACT	CTAATGCTGC	540
TGGTAAGACA	TGAATAAATA	CATACCATCT	CTGGCAATCA	ATACCAGAAG	ATCTCGAG	598

(2) INFORMATION FOR SEQ ID NO:691:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 406 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

GAATTCGGCC	TTCATGGCCT	AGTTCTCCCT	TCCATTCTGC	CCTTGTATCT	TTGCAGTCAT	60
TGTATACAGC	AGATTCTAGA	AAGTGTTAAT	CATTGTCACC	TAAATGGCAT	AGTTCACAGG	120
GACCTGAAGG	TCAGTATATG	GAGTCCATAA	ATCTGAATCA	AAGCAGTTT	ATTTTTTTT	180
CTGGGGAAAG	GGCAGAGGGT	GGGTATTTAA	AATGGTTCCC	TTGCCTTTCC	CAACTTGTTT	240
CTAAAATGAG	TAAATGATGA	AATGATAATG	CATGATGCCT	CTTCCAGTTT	GCTCATCTAC	300
AGGCTAAATA	TACATCATAG	CAAAAAGGGA	AGAATACTAA	AGAATACAAC	CTGCTAAGTT	360
TCCAAGCAGT	AAACTACCTA	CCAAAAGGGA	TTGAGGATCC	CTCGAG		406

(2) INFORMATION FOR SEQ ID NO:692:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 263 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

GTCCTGGAAG	AATGTGTCCA	GCAACCCAAA	AACTAATAGA	AGAGTCACAG	AGAAAAATGA	60
ACGCTTTATT	TGAAGGTAGA	CGCATCGAAT	TTGCAGAACA	AATAAATAAA	ATGGAGGCTA	120
GGCCTAGAAG	ACAATCAATG	AAGGAAAAG	AGCATCAGGT	GGTGCCTAAT	GAAGAACAGA	180
AGGCGGAACA	AGAAGAGGGT	AAGGTGGCTC	AGCGAGAGGA	AGAGTTGGAG	GAGACAGGTA	240
ATCAGCACAA	TGATAGACTC	GAG				263

(2) INFORMATION FOR SEQ ID NO:693:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 404 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

GCCGCCGAAG	AAGCATCGTT	AAAGTCTCTC	TTCACCCTGC	CGTCATGTCT	AAGTCAGAGT	60
CTCCTAAAGA	GCCCGAACAG	CTGAGGAAGC	TCTTCATTGG	AGGGTTGAGC	TTTGAAACAA	120
CTGATGAGAG	CCTGAGGAGC	CATTTTGAGC	AATGGGGAAC	GCTCACGGAC	TGTGTGGTAA	180
TGAGAGATCC	AAACACCAAG	CGCTCCAGGG	GCTTTGGGTT	TGTCACATAT	GCCACTGTGG	240
AGGAGGTGGA	TGCAGCTATG	AATGCAAGGC	CACACAAGGT	GGATGGAAGA	GTTGTGGAAC	300
CAAAGAGAGC	TGTCTCCAGA	GAAGATTCTC	AAAGACCAGG	TGCCCACTTA	ACTGTGAAAA	360
AGATATTGT	TGGTGGCATT	AAAGAAGACA	CTGAAGTCCT	CGAG		404

(2) INFORMATION FOR SEQ ID NO:694:

- (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 299 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

GAATTCGGCC TTTCATGGCC TACTGGATGG CTTTTTATCT TTTGCTTTTC TTTTATGGCA	60
GATGCCTTTC CATCGGCATC CCAGCTGTGG CTGGGGACGT TTTGGGAAGT GTGTTTGGCT	120
CACTCCGAGA GAACGAGGTC TCAAGAGGAA GTGTGTCTGG CTTGCAAAGA TGTCCCTGGG	180
CCTGGACAGG ACCCGCTGT GTTCTGCAGC CCTCGACGCA GTGGGTGAGT GAGGCCTTCC	240
TCTCCTGCTG GCTGCCCTGG AGGATTTCAG CATGTCCCAG GATTGCTCC ACCCTCGAG	299

(2) INFORMATION FOR SEQ ID NO:695:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 468 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

GAATTCGGCC TTCATGGCCT ACCTGTTGAA AACTCTCCAA TGAATTCCCA CTCCATCATC	60
CTGTGGGATG GGTCCACCAT GCTGGACCAC AAGGCTCTGC ACAATGCGGC TCCCACCAGC	120
CTCTCCCCTT GGCCAGATT GCTTCTCCT ACCCCTTTCT CTAGCTGCCA GGCCCCCCTAA	180
CCCCCGCATG GAGCCCTTCA GCAGCTCTGT GAGCTCCCTG CCTGTTGGCA GCCATCACAG	240
CAACGGGCTC TGGTGTGCCC CTGTATTATCC CTGTATTATC GCCATTATCT GTAATGACAG	300
CCTGGCATAA TTTTATTTTC ACAATTTGTA TAATTATATT CTATTGAGCT AAATGATCAT	360
TATAATCATT ATTAAATATT TATTAAGCAC TTCTAGCTGT GCAAACATAA TAAGATGTGG	420
CCTCAGCTCT TAAATCTTT CTTCCTAATT CCAACCCAAA TACTCGAG	468

(2) INFORMATION FOR SEQ ID NO:696:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

GAATTCGGCC TTCATGGCCT ACAAGGGAAC ATGTAACTA ACATAACCAA TTGTCAGTTC	60
TCCATGTATT CCTCAAAGA ATGTCAGAGT AAATGTATTA GAAATACAGT ATCCAGACTG	120
CTAGTCCTTG CCAGAGACAT TCTTACCTCT GCCCTGTGAT AATATTTTAT GCTTGACAGT	180
GAAACAAGT GTGGCCCTT GCACCGGTTA GCTAGAAGTA CAGCCAGATT TCAAGCTAGT	240
GCAGTCACCT CTTCCGTCAT TCTTCACAAA TCTTGTC AAC CTGGATCTTA GACTTCATCT	300
GAATTCGAG	309

(2) INFORMATION FOR SEQ ID NO:697:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 464 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

```
GAATTCGGCC TTCATGGCCT ACACGGATCC GTGTGAAGAC CTACACAGAT GAGCTGACGC      60
CCATTGAGTC TGCTGTCTCT GTGTTCAAGG CAGCCAACTG GTATGAAAGG GAGATCTGGG      120
ACATGTTTGG AGTCTTCTTT GCTAACCACC CTGATCTAAG AAGGATCCTG ACAGATTATG      180
GCTTCGAGGG ACATCCTTTC CGGAAAGACT TTCCTCTATC TGGCTATGTT GAGTTACGTT      240
ATGATGATGA AGTGAAGCGG GTGGTGGCAG AGCCGGTGGG GTTGGCCCAA GAGTTCCGCA      300
AATTGACCT GAACAGCCCC TGGGAGGCTT TCCCAGTCTA TCGCCAACCC CCGGAGAGTC      360
TCAAGCTTGA AGCCGGAGAC AAGAAGCCTG ATGCCAAGTA GCTCCAGGGA ACGCATGTGG      420
ATCCTAGACA GCGCCTTATC TATGATTGAG TGCCATTCT CGAG                          464
```

(2) INFORMATION FOR SEQ ID NO:698:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 412 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

```
GAATTCGGCC TTCATGGCCT ACGGTGGTGA ACGAGTCTCC AGCACCATGT CTGGTTTGTC      60
TGGCCCAACCA GCCCGGCGCG GCCCTTTTCC GTTAGCGTTG CTGCTTTTGT TCCTGCTCGG      120
CCCCAGATTG GTCCTTGCCA TCTCCTTCCA TCTGCCATT AACTCTCGCA AGTGCCTCCG      180
TGAGGAGATT CACAAGGACC TGCTAGTGAC TGGCGGTAC GAGATCTCCG ACCAGTCTGG      240
GGGCGCTGGC GGCCTGCGCA GCCACCTCAA GATCACAGAT TCTGCTGGCC ATATTCTCTA      300
CTCCAAAGAG GATGCAACCA AGGGGAAATT TGCCTTTACC ACTGAAGATT ATGACATGTT      360
TGAAGTGTGT TTTGAGAGCA AGGGAACAGG GCGGATACCT GACCAACTCG AG              412
```

(2) INFORMATION FOR SEQ ID NO:699:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 139 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

```
CAGCTCCTGT GACATTGAA GTTCTTTTA AAGGGGTTTT TCTTAATCAA AGTTTACAT      60
TTGGTAGCAT AAGTAGTTCT TTATGCTTCA CAGGACATTG TCTTCAGAGT AATCTCTCTG      120
CTAAAATGGT ACATGTGGG                                     139
```

(2) INFORMATION FOR SEQ ID NO:700:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 406 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

```
GAATTCGGCC TTCATGGCCT ATGAAATGAT ACCTATGGAG TGTGATTCAT TTTGCAGTGA      60
CCAAAATGAA TCTGAAGTTG AACCATCTGT AAATGCTGAT CTTAAACAAA TGAATGAAAA      120
TTCTGTGACA CACTGTTCTG AAAATAATAT GCCGTCTTCT GATCTTGGCG ATGAAAAGGT      180
TGAAACTGTT TCTCAACCAT CTGAAAGCCC AAAAGATACC ATAGATAAAA CAAAAAGGCC      240
TCGTAATCGA AGATCTAGAT TTCATTCTCC ATCTACAACT TGGTCACCCA ACAAGACAC      300
TCCACAAGAA AAGAAGCGGC CCCAGTCTCC ATCTCCAGA AGAGAAACTG GGAAGAAAG      360
CAGGAAGTCT CAATCACCAT CTCCTAAGAA TGAGTCAAAC CTCGAG      406
```

(2) INFORMATION FOR SEQ ID NO:701:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 511 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

```
GGCAAGATGG TGTTCAGAC CCAGGTCTTC ATTTCTCTGT TGCTCTGGAT CTCTGGTGCC      60
TACGGGGACA TCGTGATGAC CCAGTCTCCA NACTCCCTGG CTGTGTCTCT GGGCGAGAGG      120
GCCACCATCA ACTGCAAGTC CAGCCAGAGT GTTTGTGACA GCTCCAACAA TAAGAACTAC      180
TTAGCTTGGT ACCAGCAGAA ACCAGGACAG CCTCCTAAAC TGCTCATTTA CTGGGCATCT      240
ACCCGGGAGT CCGGGGTCCC TGACCGATTC AGTGGCAGCG GGTCTGGGAC AGATTTCACT      300
CTTCACCATC AGCAGCCTGC AGGCTGAAGA TGTGGCAGTT TATTACTGTC AGCAGTATTA      360
TAGTAGTTGG ACGTTCGGCC AAGGGACCAA GGTGGAATC AAACGAACTG TGGCTGCACC      420
ATCTGTCTTC ATCTTCCCGC CATCTGATGA GCAGTTGAAA TCTGGAATG CCTCTGTTGT      480
GTGCTGTCTG AATAACTCCT ATCCGCTCGA G      511
```

(2) INFORMATION FOR SEQ ID NO:702:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 456 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

```
GAATTCGGCC TTCATGGCCT AGGGATGGTC TTAACAGGGA ANAGAGAGGG TGGGGGAGAA      60
AATGTTTTTT TCTAAGATT TCCACAGATG CTATAGTACT ATTGACAAAC TGGGTTAGAG      120
AAGGAGTGTA CCGCTGTGCT GTTGGCAGCA ACACCTTCAG GGAAGGAGC TGCTTTTATC      180
CTTGGAAGAG TATTCCAGT TGAAGCTGAA AAGTACAGCA CAGTGCAGCT TTGTTTCATA      240
TTCAGTCATC TCAGGAGAAC TTCAGAAGAG CTTGAGTAGG CCAATGTTG AAGTTAAGTT      300
TTCCAATAAT GTGACTTCTT AAAAGTTTTA TTAAGGGGGA GGGGCAAATA TTGCAATTA      360
GTTGGCAGTG GCCTGTTACG GTTGGGATTG GTGGGGTGGG TTTAGGTAAT TGTTTAGTTT      420
ATGATTGCAG ATAACTCAT GCCAGATATT CTCGAG      456
```

(2) INFORMATION FOR SEQ ID NO:703:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 439 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

```
GAATTCGGCC TTCATGGCCT AGTCCTTTGC TCTACTGTTG AATGGAGGAG GATTTTTTTT      60
TTTTCCCTC NACACAGGGG TTTTCTTGGA GCTCAAGTTT GGATGACCCC AGACAGTAAG      120
ATAATCTCAT CATGGTAAAG TTAATATGAA ATATGTGGTC TCCAAACAGC CTCTCCCAGA      180
GGCCAGGATC AGCAGGTTTG AGTGGATAAT TGGCTTGTGG TCATTTTCTC ATAGGATTTT      240
TCTTTTAGTA GTGGAAACTG TTTTCAAAT CAAATTGGA TGCCAACTAT GTGGAACAGA      300
AGTGTGGCTG CTCTGGTGGG AGTGGCAATG GTAGTCCTAG AGTCTCCCTG TCAGCCACAC      360
CCTTTGTCTC CCCCTACCCA AGGGACCCTG TGGCCTGGAA CCGCAGTGTG AAATGCTATA      420
TAGTGCAATG AAGCTCGAG                                     439
```

(2) INFORMATION FOR SEQ ID NO:704:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 437 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

```
GAATTCGGCC TTCATGGCCA ACAGCTGAGA TAACGAGGAA ATATTCTGAA ATGGATCCCA      60
AATATTTCAT CTTAATTTTG TTTTGTGGAC ACCTGAACAA TACATTTTTT TCAAAGACAG      120
AGACAATTAC AACAGAGAAG CAGTCACAGC CTACCTTATT CACATCATCA ATGTCACAGG      180
TATTGGCTAA TTCTCAAAAC ACAACAGGGA ATCCTTTGGG TCAACCAACA CAATTACGCG      240
ACACTTTTTC TGGACAATCA ATATCACCTG CCAAAGTCAC TGCTGGACAA CCAACACCAG      300
CTGTCTATAC CTCTTCTGAA AAACCAGAAG CACATACTTC TGCTGGACAA CCACTTGCCT      360
ACAACACCAA ACAACCAACA CCAATAGCCA ACACCTCCTC CCAGCAAGCC GTGTTACCT      420
CTGCCAGACT ACTCGAG                                     437
```

(2) INFORMATION FOR SEQ ID NO:705:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 403 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

```
GAATTCGGCC TTCATGGCCT ACATTCACAT GTTCCCAATC ACTTCCCTCA CACACATATG      60
CTCACTGATT TACACAGCCA TTCGCACTTA TACATACTCG NTCACATTCA CACAGGGTCA      120
CCCATTACCA CACACTCGAC ACATTTACCC TCACATTAC CCACTCACCA TTCCCACTCA      180
CCAGTTACCA TGCACTCACC CAAGCTCACA CTTGACCACG GACACACCCT CAAACATAGG      240
TGCTTACACA CAAGCCNACA CACACTCACC TAGCCATTCA TACTCAGTG CACCTATACC      300
TTCACACACA TCCTCACATA CCCACACAGC TCTACACATA CCCACTTTCT TACACATTCA      360
CACACATACC TATAGACACA TTCAAACACA CCCNACGCTC GAG                                     403
```

## (2) INFORMATION FOR SEQ ID NO:706:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 501 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

```

GAATTCGGCC TTCATGGCCT ACTCAGAATC ATAATGAAGT CCAGTCTACC ACACCACCTT      60
TCACTACTGT TGATTCACAG AAAGACTGTA GAAAATTTCC AGTTCCACAG AAGGATGGTA      120
GTGCTTTGGA GGATTCTAGC ACTTCAGGGG CATCCTGTTT CAAGTCAAGA CCACATTTAG      180
CTGGGACACA TACTTCTCTT AGACTTCCGC AGGAAGGAAA AGGAACCTGT ATTCTTGTAG      240
GTGGTCATGA AATCACTTCT GGATTAGAAG TAATTTCTTC CCTAAGAGCA ATTCATGGGT      300
TGCAAGTAGA AGTTTGTCTT CTTAATGGCT GTGATTACAT CGTGAGTAAT CGCATGGTGG      360
TGGAAAGGAG GTCTCAATCT GAGATGTTAA ATAGTGTCAA TAAGAACAAG TTCATTGAGC      420
AGATCCAGCA CCTGCAGAGT ATGTTTGAAA GAATATGTGT GATTGTGGAA AAGGACAGAG      480
AAAAACAGG CGAAACTCGA G                                     501

```

## (2) INFORMATION FOR SEQ ID NO:707:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 403 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

```

GAATTCGGCC TTCATGGCCT AGGACAACCTG TGATATTTCG GTTCCTGATT GTAAATACCT      60
CCTAAGCCTG AAGCTTCTGT TACTAGCCAT TGTGAGCTTC AGTTTCTTCA TCTGCAAAAT      120
GGGCATAATA CAATCTATTC TTGCCACATC AAGGGATTGT TATTCCTTTA AAAAAAACC      180
AATACCAAAG AAGCCTACAA TGTTGGCCTT AGCCAAAATT CTGTTGATTT CAACGTTGTT      240
TTATTCACCT CTATCGGGGA GCCATGGAAA AGAAAATCAA GACATACACA CAACACAGAA      300
CATTGCAGAA GTTTTAAANA CAATGGAAA TAAACCTATT TCTTTGAAA GTGAAGCAAA      360
CTTAAACTCA GATAAAGNAA ATATAACCAC CTCAAATCTC GAG                                     403

```

## (2) INFORMATION FOR SEQ ID NO:708:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 348 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:

```

GAATTCGGCC TTCATGGCCT AGGTGGGGGG CCTTCTGCAC AAAAAGGGAG TAAGTCCACG      60
CTATACCTGT GCTCAAATAA CAGCGCCATT GATGTCTTGG CANACTTGGG ANGACATTCC      120
TTCTGCAAGA CTTGNTGAGC ATATTTCTGA GCTCTCTTTA CATGGTCAGG GTCCACATAA      180
TGCATTTTTT TCATGTCACA TTCTTCAGTA GTATAATTTA ACTTGAGGAT ATAAAGGATC      240
CACACTCCAA ACACAAGCAA TGTACATTTG AGGATGTCTT TTAATNACAA GCTGGGCCTT      300

```

CTCATCTTGC TTTGAGCTCG GGTGTACCAT TGCAGGGAGG GCCTCGAG

348

## (2) INFORMATION FOR SEQ ID NO:709:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 322 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

GAATTCGGCC TTCATGGCCT ACAGAATTGG CAGCACAAAG AAAACGCCCT CTCCTGACTT	60
GTATTGTGGC AGTCTGAACG CCCCAGAAA ATTGTGCCAA AGAGTTTAGA AAAATAAATA	120
TACAATAAAA GTAAACACAT ACACACAAA CAGCAAACTT CAGGTAACATA TTTTGGATTG	180
CAAACAGGAT AATTAAATGT TCAAACAATC TGATAAAATA ACCATTGGA AACTGCTTGG	240
CCTTCTGTTT TTTTATTGA TTGACTACAA TGCGGTATTG GTCTCTTGCT GCACTTCAAA	300
AGCAACCAAC AAAACCCTCG AG	322

## (2) INFORMATION FOR SEQ ID NO:710:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 367 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

GAATTCGGCC TTCATGGCCT AGCCATAGAA ACTGCCTCTT TTCATGTGGG ATGAAGACAT	60
CTGTGCCAAG AGTGGCATGA AGACATTGC AAGTTCTTGT ATCCTGAAGA GAGTAAAGTT	120
CAGTTTGGAT GGCAGCAAGA TGAAATCAGC TATTACACT GCTGTACACA CACTTCTCTA	180
TCCTGCAGC CATTGTGAAA TTGACAACAT GCGGTAATT TAAGTGTGA AGTCCCTAAC	240
CCCNAAACC TCTAAAAGGT GGATTCTCT AGTTGGTTG TAATTGTTCT TTGAAGGCTG	300
TTTATGACTA GAATTTTATA TTTGTTATCT TTGTTAAGGA AAATAGAGGA ANNCAAAGGG	360
ACTCGAG	367

## (2) INFORMATION FOR SEQ ID NO:711:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 318 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

GAATTCGGCC TTCATGGCCT AGACTTCCAC AGAGACCTAT CTGGAACCTC TGGTTCCTTA	60
CCTCTGCTTC TGTGAGAGCA GCTCTGGGTT TTGGTTTGT ACTATTGTAC ATATTAGGCT	120
TCTATACAAG AAGAACTGGT CCCATTGGTT TAAAAATAAG TTTGAAAATC CTAGAAACAG	180
TGAGAGTCAG AAAAAAATC TGTTTTATA TACATATTCT CTCCTCCACC CCCTTTCTCT	240
CCAGTTGAAA TATGTTGAG AGCTCTAAAT TTAGGGATGC TTTGGCGTA TTTCTTATAC	300
ACTCCAGAGG CACTCGAG	318

## (2) INFORMATION FOR SEQ ID NO:712:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 468 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

```

GAATTCGGCC AAAGANGCCT AGGTTTGAAA ACTCTGCTTC CTTTGTGAAT TTGGTGTTAG      60
GAGTTCTTAT TGTTATTCTG CAGCCTTTAC TATTGTCCTT TATTTACTGA ACACAGTGAA      120
TACCAAGCAC TGTTTATTAG AGGTTAGGAG TAGGGGCAGG TGATTAAAAA AACAAAAAAG      180
CTAATAATCT CCTCAAGCAA TTTCTGGCCT AATAGAATTA TAGTAGACAG TGAAGTATCT      240
AAACCCAGGG AATCAGATTG AGGCACCATG TCCATCGCCT TGAGAATTAA TAGGCTGCAT      300
TTCTGGGTTT TCCNTTTTTT TTTTTTTTTT GCCCAACTGA GTCTTTCTGT GGACTTACAT      360
GGAAGTTCTT ATTCTCTTAA ATCATTAAAGT TACTTGACAA TATTCTTGGA TTTGGAGAAA      420
CTGGATGTAG GGCCGTATGA AAAAATCATT CGAAATCAGA ATCTCGAG      468

```

## (2) INFORMATION FOR SEQ ID NO:713:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 297 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

```

GAATTCGGCC AAAGAGGCCT ATTTTATTGC CAAACTTCTG AATAAACTGA AACAGCAGCA      60
ACAGCAGCAA CAACAGCATT CTGAAAATAA GAGAGAAAAC TCTGAAGATC CCGAGGAATC      120
TTGGGAAAAT TTAGTTTCGG ATGAGGATTT TTCTGCACTG TCCTTGGAAT CAGCAAATGT      180
GGAAGATTG GAACCTGTGA GAAACCTCTT TAGAAAGTTG CAAAGCACAC CTAAGTATCA      240
GAAACTTCTA AAGGAAAGAC AACAGCTACC TGTATTTAAA CATCGGGTCC TCTCGAG      297

```

## (2) INFORMATION FOR SEQ ID NO:714:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

```

GAATTCGGCC AAAGAGGCCT AGAAATACTG GAAAAAGGA CACTTACTGT GTGACTTAAA      60
TTGATTAAAG GGTATTTCAG TTCAACTCTC TTGAATCTAA TTAGTATTTT TGTGTCATTT      120
ATTATTATAG GGCACACATT TTTTACATTT GATTTAACTT GACCAAAATT AAATGAGCAA      180
ATGTTTATTG CTATGTCCAT TGTTTTCTTT TCTCTGTCAC TGTTAAAAAG AGGAGCCATG      240
GCTTCTGCTT CTTCTGTGTA TTCTCCATTA GACCTTCTTC ATCCACCCTC TTCCCCATCC      300
CTTTCAGCTC TGAAGGGTCC TCTCGAG      327

```

## (2) INFORMATION FOR SEQ ID NO:715:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 324 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

```
GAATTCGGCC AAAGAGGCCT ACTTCTCCAA GCATTCATGT ACATCCTTGG GATCTGCCTC      60
ATCATGGAGC TCATTGGTGG CGTGGTGGCC TTGACCTTCC GGAACCAGAC CATTGACTTC      120
CTGAACGACA ACATTCGAAG AGGAATTGAG AACTACTATG ATGATCTGGA CTTCAAAAAC      180
ATCATGGACT TTGTTCAGAA AAAGTTCAAG TGCTGTGGCG GGGAGGACTA CCGAGATTGG      240
AGCAAGAATC AGTACCACGA CTGCAGTGCC CCTGGACCCC TGGCCTGTGG GGTGCCCTAC      300
ACCTGCTGCA TCAGGAATCT CGAG
```

(2) INFORMATION FOR SEQ ID NO:716:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 495 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

```
GAATTCGGCC AAAGAGGCCT AAAGGGATTT AAAACCTCTG TAGAGGCTGG GCGCGGTGGC      60
TCACACCTGT AATCCCAGCA CTTGGGAGG CCAGGGCGGG CAGATCACCT GAGGTCGGGA      120
GTTTCGAGACC AGCCTGACCA ACGTGGAGAA ACCATGTNTC TCTACTAAA ATACAAAAT      180
AGCCAGGCGT GGTGGCACAT GCCTGTAATC CCAGCTACTC GGGAGGCTGA GGCAGGAGAA      240
TCACTTGAAC CTGGGANGTG GAGGTTTTGG TGAGCTGAGA TCGTGCCATT GCACTCCAGC      300
CTGGGCAACA AGAGTGANAC TCCATCTCNA AAAAAAAAAA AGAAGAGTTT ACACGAAGTC      360
ACCTCTATTT CAGAAGATAA TCTAGACTCT ATTCCCTCAG AGTCTTTTTT CTCCCCAAG      420
ATAACACTGT CCTAGGTATT TCCTCATACC CCCAGGCCCA CAGTTCATGG CCCACATGTC      480
CCCTGTAAGC TCGAG
```

(2) INFORMATION FOR SEQ ID NO:717:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 414 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:

```
GAATTCGGCC AAAGAGGCCT ATTTTTTAGA TCATCAGCTA TTGTTAGTGT TTGTGTATGT      60
TATGTGTGGC TCAAGACAAC TTTGCTTCTT TTAATATAGG CAGGGAAGTC AAAAGATTGG      120
ATATCCCTGC TTTATACCAA GAAAGACAAC ACCCCACATT TGCAGTGCCT GAAAACACTA      180
CCAGCCATCT GAAAAACATG TGACTTCTAA CTTCTGTTCT TTTTGTAGC AGTGGAATCC      240
CACGGTGATA TCTGAGGGAT GTGGTTACCT TTTGGAGGAG GTTGACGGTT TCTAAGGATG      300
ATTCTTTCTG AGTGAAATAT TGTCAGTGTC ATTGACCTTT TCATTATTTC AACTATTATT      360
ATTCCAGGTT ATCAATACTC TGGCTGACCA TCATCATCGG GGGACTGACT CGAG
```



## (2) INFORMATION FOR SEQ ID NO:718:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 457 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:

```
GAATTCGGCC AAAGAGGCCT AGGATGAGAA TGA CTGTGCC TCATTGCATC TTCCTGGCTG      60
CCTGATGGGC AGAAAACCTG GGTCTCCTCC CCATTTTAGG AATGGGAAGG CTGAGTCTCT      120
GCGATGAGCC TTCCTCAGGG ATGGTGAGGG GCCGGCCCCG CACTAAGCCC CATTCTCTGA      180
GTTAGGACCT GTAGGAGGGT GGCAGGGGCA AGCGGGGAG GTGGGTGGCC CAGGCAACTT      240
TGCAACATC TTCCCTTTT CCGGGAGAAG CAAACGCGCT GTGTGGAAG GCACATTCCG      300
AAGATGGAGT TTCACATCAG CAAGGTCAG TGGCTCGTGG ATGTTGCAGG GTGGGGTGGG      360
GCAGTGCCAG CTTGTGGGC CTCAGCTAGG TTAGCAGGAG CTGGGGAGGT GCCCTCGAAG      420
CAGGGATCAG GGCCTCTGGG TATGGTGAG GCTCGAG                                     457
```

## (2) INFORMATION FOR SEQ ID NO:719:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 509 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:719:

```
GAATTCGGCC AAAGAGGCCT AACTTGCAGA AGCTGTTTGA TGCAGAGATA AATTGGAAGA      60
ATGGTCAGCC TCTTAAGCTA GCTTATTCGA AGAGGTACTG GAAAAAATAT GGCAAAGACT      120
TCAACGACAT ATGCCAAAAC TTTTCCCTT GGAAATCATT GACTAGCATC ACTGAATGTT      180
ATTCTTGTG GAGAACTACT GACAGATATG TGCAACAGAA ATGGTTAAAA GCAGCAGAAA      240
CTGAGAGTAA GCTGAAACAA GTATATATCC CAATTTACAG GAAACCAAAT CCCAACCAAA      300
TATCTACCAG CAATGGCAAG CCTGGTGCTA TGAGTGAAAC CATGAGGTTG ACATTCTCTG      360
CTCAGAAATCC CCTTGTAGTG CAAGCCTGGG AGGGCTGCTG TGCTACACAG TCTAACCAGT      420
AGTATTCTTG GGGCCCACT AATATGCAGT GCAATTTGTT GGCTTTATTG AGAAAAATAT      480
GGAGACCTGA AAATGCCAC CCGCTCGAG                                     509
```

## (2) INFORMATION FOR SEQ ID NO:720:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 344 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:720:

```
GAATTCGGCC AAAGAGGCCT AATGTGTAGT CATCTGGGAT ATGCTAGCAT CACAGTTACC      60
TGGAGTCATC TTGAATATGG AGATGACAGG GACTGATTTT GCAGATTCGT TGAGTTGGTG      120
GGATATGTAA ATATGTTTTT CACCAACAAA TCAGATATTT CTGTTGGGCA GCCAAGTGTA      180
ATAACCATTG CTGTAAATGA TCTCTGTCCT CTCCAATCA CATGATTAAT TAAATTATGT      240
```

GAATGCCTAG TTGACTGCTA GGAATGCTT GTACTTTGGA AATATTTTAA CCAAGGACAC 300  
TCTAGAAATT CTCTTGCTCT CCCACCTCAA CAGTGCAACT CGAG 344

## (2) INFORMATION FOR SEQ ID NO:721:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 335 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:721:

CGGTAGAGAG GCAGAAGCAA GAGAGCTACG GTTCAGGTTG GGCACCACTG ATGCCACTGG 60  
 TTCTCTGCAA GCGGATTCCA TGACAGAAAC CGTAGCAGAA AACATCGTTA CCAGTATCCT 120  
 GAAGCAGTTC ACTCAGTCTC CAGAGACAGA AGGCATCTGC TGATTCTTTT CCAGACACAA 180  
 AAGTCACTTA CGTGGACAGG AAAGAGCTTC CTGGGGAAAG GAAAACAAAG ACTGAAATAG 240  
 TTGTGGAGTC TAAACTGACT GAGGATGTTG ATGTTTCCGA TGAAGCTGGC CTGGACTACC 300  
 TTTAAGCAA GGATAATAAG GAAGTTGGAC TCGAG 335

## (2) INFORMATION FOR SEQ ID NO:722:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 348 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:722:

GGAACACACC TGTGGTGCTA GTGTGGGAT CGGGGGCGTT TAACGCTGGT GGGCAGCAAT 60  
 AAGGGGCAGA TGTGCCCAGA TGCCTGATC CCCAGGGTGC CGAGGGCAGC AGGAAAAAGT 120  
 GGGGACCTCG GTGCATTGCG CCCACCCCTC CCCTCCCTGG GCTAAAGCAC AATGTTCTCC 180  
 CCGCAGATTA ATGACCCTGC ACCCTCCAGG CCCTACTCA CATCCTCCCC CAACCGGCTT 240  
 CGGGTCCTCC CACCACATC TGGTTTCTA TGCTGTTTG GTGCAAGTAC AACTGTCGTA 300  
 GTCATGGCTT TGGGATGGGT TCTGTTTATT AAAATCCTAT TACTCGAG 348

## (2) INFORMATION FOR SEQ ID NO:723:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 275 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

GAATTCGGCC TTCATGGCCT AGTAGTTGTT CCATGCTGTT GTTTTTTGTT TTATCTTTCA 60  
 TTGCCTTTCC CTCTGCAGTC AACATTATGA CCTGGGGACT CCAGCATCCT TCAAGCAAGC 120  
 CATTTCCGAA GAAGGTGAAA AGAAGCCAGG ATGATTGGCA CCTCCTCCTC CTCCTCCTCT 180  
 TCTTCCTCTT CCCTTGCCCA GCCCCTCCT GTGCGTGTGT TTCAGACAAC ACAGGAGCCA 240  
 GCACAGGAGT GGAAATCCT GTAGCGCAAC TCGAG 275

## (2) INFORMATION FOR SEQ ID NO:724:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 317 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

```
GAATTGGCAT CTTTTCATTG CTTTGGCCCT TTGAGAGTTG TTTAGTTTTT TAAAAGTCAG      60
ATAATTTTGG ATTATATTCT AGACCTTTTG AATATTATGT TATAGGACTC TGGAGTCTGT      120
TAAAATCTTT AGGAAGACAT TAATTTTGTG AATTTTAACA GACAGAAGTC CTTGTTATAT      180
TGATCCATTG GTTTGTTCTA CACTTGTGCA CCTTGGAGAT GAGTCTGACT TCATATGCAG      240
AATTTAGTAT CCCTTTCCTG AGCTCCCTCC CCTCTGTGAT CCTCCCCATT CTTCTTTCT      300
CCCAAGAACT TCTCGAG                                     317
```

## (2) INFORMATION FOR SEQ ID NO:725:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

```
GAATTCGGCC TTCATGGCCT AGGGTCAGTG AATCTGCATT ATTACATAAA AAATAAGGCA      60
GAGGAAGCAA TCAAATATGC GTTGTCTCTT GGTGAGCCTC AGCAGGGATG ACTTTGAGTT      120
CTGTCTGTCC TTTGTCCACA AGGAATTTCC TTGTGGAATA TTGTGAAGGA GGTATGTCGC      180
TTCCTAACTC TGTACCTATC TTATTTAGGA ATAAATGGG AGGCAGGTCT GTCTGACATA      240
GTTCCCAATT TGACTTTTCC CCTGACTTAG TGATTTTGAG GTCTCGAG                                     288
```

## (2) INFORMATION FOR SEQ ID NO:726:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 247 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:726:

```
GAATTCGGCC TTCATGGCCT ACACACTAAT AGGATTGGAT TTATGTATGT CCAGCTTGGG      60
AATTATTACA GGAATTAAAA ACAACTTTT AGAGTGCTTT CCTGAGCTCT CTTTCTATTT      120
GTTCCCCCTT CTACTTTTGT CTTCCCTGTG GCTGCTGTTT CTATCCTCCA GCCAGAGAGC      180
TAGTGTTTAT TTTCTCCATT GTGTTACACA CTTGTGCAGC TGCAACCACC ATATCCAGGG      240
GCTCGAG                                     247
```

## (2) INFORMATION FOR SEQ ID NO:727:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 256 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:727:

```
GAATTCGGCC TTCATGGCCT AGAATTCTAG ACCTGCCCCG GTCTTCCTCC TCGTCCTGCC      60
GCAGGGCCAG AACCCCTGAC GGTATTGAGC TCGCGGTAAG TCTGGCCGGT GCCATCTGTC      120
TCCGCAATGC CCCCAAGAA ACAGGCTCAG GCCGGGGGCA GCAAAAAGGC GGAGCAAAAA      180
AAGAAGGAGA AGATTATCGA AGACAAACT TTCGGTTTGA AGAATAAGAA AGGAGCAAAG      240
CAACAGTTAT CTCGAG                                     256
```

(2) INFORMATION FOR SEQ ID NO:728:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 279 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:728:

```
GAATTCGGCC TTCATGGCCT AAGTGCTTGC GCTCTAATAA CCATGTTTAT CTCATGCCTT      60
TGGGCCTTTG CATATGTGTT TCCTCTGCTG ACACCAACCT CCTCCTCCTC CTCCTCCTCC      120
TCTGCTTGGC TGGCTTCTCT CAGTCTCAGT TCGGATACCT TCTCTTCTAG GAAAGCTCCC      180
CTGACCACTC TTTCTTTGGG CTTCTATAAC CCCCTGTCT GCCCCCATCA GGGCACCTCC      240
CAAATTTTCA TGTTCCTTT CCTCCTCCCC AATCTCGAG                                     279
```

(2) INFORMATION FOR SEQ ID NO:729:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 231 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:

```
GAATTCGGCC TTCATGGCCT AGAGAAACCT ATTTTTCAT TTAACCTGTT CTTTAAATCC      60
AGTATGTTCC AGAACATACA AAAATGTTTA AATGTTCCAT TTGTAAGAGG ATATCATGTA      120
TTTTATATCA ATTAAATGC AGTTATCCTA ATCATTTTTC TTTCATTTT ACCCTTTATT      180
AACTCTTCAT TTGTTTACAA AACAAATCCA CTCTATAAAC GCAATCTCGA G                                     231
```

(2) INFORMATION FOR SEQ ID NO:730:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 253 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:

```

GAATTCGGCC TTCATGGCCT ACACACATAA TTAGTTATTT TACCATTCTT TCATAGTTTT    60
AAGAGCAAGT TTTCACAAGG GCGATTTGAA TTAGAGGGTA GAATAATATT TTAAAAATCG    120
TTTTCTATTA TTCAAATATA GAATGTTATT AAATTTTTTG GTATCGCTGG TTAAGTGCCT    180
AGAACTTGAT CATCTTCTAT TTCTTTTCC TTTTGCTAT GAGAAAAATA ATGCTCAGAG    240
AAGTATACTC GAG                                                    253

```

## (2) INFORMATION FOR SEQ ID NO:731:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 239 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:

```

GAATTCGGCC TTCATGGCCT AAGAGACTTA ATTATTAACA AAGTATTAGA AGCTAGAAGT    60
AGGTAAAATA AGTGATTATT TTAATAAAAA TTATCCTTAC TTTACAAAAT CCATATTAAAC    120
CTCACTTGAA ATTTTATGAG CTTTTCCTAT AAGTTTAAAG AGATAGAAAT CAGTGAAAGA    180
CCTCAGTAAT TCCTGCAATG ATCTTAATAG AAAATATTTT ATACCTTCTC TCCCTCGAG    239

```

## (2) INFORMATION FOR SEQ ID NO:732:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

```

GAATTCGGCC TTCATGGCCT AAATAAATAT CTCATTTTAA TTGTTACTTT GTTGGACTTG    60
ATTACTGCAA ACCTATCACT AATTCCTTCT GAGTTCACCG AAAGAAGTGC AAAACCCCTC    120
AATATATTAC CATCATGTGC TTCTTCTGTC CCACTCTTTT CCTTAGAGAC ATTTTGTTTT    180
TGTTGTTTTT AATTGGTATT GTATTGTTTT TCAAATCTTT GTCCCCCAGC GCTCGACCTA    240
TAGTGAGTCG TATTAATTTC AG                                                    262

```

## (2) INFORMATION FOR SEQ ID NO:733:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 253 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:733:

```

GAATTCGGCC TTCATGGCCT ACACACATAA TTAGTTATTT TACCATTCTT TCATAGTTTT    60
AAGAGCAAGT TTTCACAAGG GCGATTTGAA TTAGAGGGTA GAATAATATT TTAAAAATCG    120
TTTTCTATTA TTCAAATATA GAATGTTATT AAATTTTTTG GTATCGCTGG TTAAGTGCCT    180

```

AGAACTTGAT CATCTTCTAT TTCTTTTCC TTTTGCTAT GAGAAAAATA ATGCTCAGAG 240  
AAGTATACTC GAG 253

## (2) INFORMATION FOR SEQ ID NO:734:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:734:

GAATTCGGCC TTCATGGCCT AGTATCACAG GCTTTCTTCA AATAACCAGT TCCTCTAAGA 60  
 CATTGAAAAT ATAATTCGGT GTTAAAAATA AATTCATACC CGTTTGTGT GCTGTGCATA 120  
 AATAGCAAGT ATATGTGTAC CTTACCAAAC TTATGGTCCC CAGTCCCCAA ATTCAAAAAT 180  
 TATGCAGGAG GGAAGGTTAG CCATTGCAGT AAACAATTTT TCCCTATTGA CCCATGCTCT 240  
 CCAGCTGATT ATGATGTGGG CAGTACTCAT CCAAGGCTAT ACAGACCAGC CGGGTCTCGA 300  
 G 301

## (2) INFORMATION FOR SEQ ID NO:735:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:735:

GAATTCGGCC TTCATGGCCT AGAGACACAA TGGGCTCCAA GAATTGAAA TCCCTCATCT 60  
 GTGAAGGCAG AAATACTAGG AGAATGGGTA ATGTTTATAC CATCAATGAA GAAACTCTTG 120  
 TAACCTAGGG TTTTCAAATT ACAGAAGAGG AAGAACAATG GAGGCTGATC TCCAGTTTGT 180  
 GACAGTCTAG ATAGGTGGCC TCAGTCTTGC TCTTATAAAT TCTAATTCCC AGAAGCTCGA 240  
 G 241

## (2) INFORMATION FOR SEQ ID NO:736:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:

GAATTCGGCC TTCATGGCCT AGTGTCTTCTA TCTTCCAATT TTCTTCTAAG TTGTACATT 60  
 TTGCCCTTAG CTTTTGTCTT CTTAGCTTGT CTTTTTCTT CTGCTTCCTA CTTTTCAGGT 120  
 TTAAATTTAT CTTTTTCTT CTAAAAGTAT GTTTTATCT TCTAATTTCC CTATCTTCTC 180  
 TATTCCTTTC TTCGCCTTCC CGTACTTCTG TCTTCCAGTT TTACACTTCA AACTTCTATC 240  
 TTCTCCTCAAT T 251

## (2) INFORMATION FOR SEQ ID NO:737:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 313 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:

```
GAATTCGGCC TTCATGGCCT ACAGGGTTGC TGGGATGATC ACTGATTTTG CTAATATCAA      60
AAGTGCCCGAG CACAGTGCTT GGGTTGTTGG AGGCATTGAA CACACGGCAT TGTTATTATT      120
TATATGCCTT GTAACCTGAA GAGCCTGTGG GCAAACAGTG GATGCTAAAA TTCAGTTTGT      180
GGAAGAACCA GGTGCACAAA CTCCTGTTCT ACCTGTGGTT GAGTCTACAC TCCCCACCA      240
CACCCAGCT GCTCTGATCT ACCTCCTGTT CCTTGAGCAG GCCATTTTCT TTCTTGCTTC      300
AGGGCAACTC GAG                                         313
```

(2) INFORMATION FOR SEQ ID NO:738:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 302 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:

```
GAATTCGGCC TTCATGGCCT AGTGTGTTG TTCCATCTGG TTTTCTTCTT TCAAATTGCG      60
ACTGACTGTT CACAAGCCGC CTGGTCAGCT TTCCTCCAGA TTCCTTCACG ATGCGGTCAA      120
GCTGCTCCTG CTCTCTCTCT AAATTATTGC TTTTAACTT ATCTTCAAGC ATATCTTTGT      180
CTTTCTTTT ATTTTCTTTG CTGGGACTCT TGAAGGCGTG TGCTTCGGCA TCTCCAGAGT      240
CCTCTCTCTC TCTCTGCCAG CAGCCTCCGT CCTCCCACT CTGTGAGGTG TCTGTCTCTG      300
AG                                         302
```

(2) INFORMATION FOR SEQ ID NO:739:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:

```
GAATTCGGCC TTCATGGCCT AGGACTGTAC CAGCGCTATA CTGTAGTTAT TTTTTTAAAT      60
GAACTTCACA TATTTTGTGA TTCTTTCAAA TTGTTTGCTA TATATAAAG AAGCTCACTG      120
CAAAATGCTT GAAGGAAAAA AGGAAACAAA AGAAATTCAG AACTTCCCAG AAATGTACAG      180
CTTTTCGGCC TTCATG                                         196
```

(2) INFORMATION FOR SEQ ID NO:740:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:

```

ATGGCCTATG CCTCCCCACT CCACCCACCT CTGCCTTCCT TACTGCTGTA TCTGCTGCTT    50
GAACTGGCAG GAGTCACACA TGTGTTCCAT GTGCAACAAA CGGAGATGTC ACAGACTGTA    120
TCAACTGGGG AGTCAATCAT CTTGAGTTGC AGCGTACCCG ATACCTTACC AAATGGACCT    180
GTCTTGTGGT TCAAGGGAAC AGGGCCAAAC CGGAAATTAA TCTACAATTT CAAACAAGGT    240
AACTTTCCCA GAGTAAAAGA GATTGGAGAC ACCACCAAGC CTGGCAACAC AGACTTTTCC    300
ACACTCGAG                                     309

```

(2) INFORMATION FOR SEQ ID NO:741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:

```

GAATTCGGCC TTCATGGCCT ACTGAAGGTA GGTGAGTTCA TCCTCTTCAT AGTAATGCTG    60
TTTTACCAAG ACTTTATAGC AGATGGACCC AGAAAGAATT TTCTGCTATT GTGTTCACTA    120
CAACAGGATA GGGACATCAG ACAGCCCCAG AAACCCCTTC CAGATCTGAT ATGGGACTAT    180
TAATTTTAT GCTGTTAATT GGTATTCAAT CACAATGCAG TTGAAGGGGG AAGGCTCCAC    240
TGCATTCTTT GGCTAAGGCC TGAATGCTTG CTCATCTGTA AGATCTATAC TCGAG        295

```

(2) INFORMATION FOR SEQ ID NO:742:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

```

GAATTCGGCC TTCATGGCCT ATAAAAAGTG GGCCAGTTTA AAGAAAAATT TTATCTAAGC    60
AGTAGTACAG CTGGCTTTCC AATATGGCAA AATAAGTCTT TCTGTAGGAG ATATCACCAT    120
TTTGGCAGGA TTGAAAAGCC TCTTGTTTGG TGCCATATAA TCAAACATA TCTGTGATTT    180
GAAAAATGAC AAAGGGTATA ATAATTCCTA GAATTGGTTT TAAATGAAG GAAATAGTA    240
TCCTAGTTCA AAAGTTATGG CTCATTGTAA GTGCTGGTCT GGTATAACCA TACAGATTGT    300
TTAAATCTT TAAATAAATA CTGGGCCAA TCCCTTTTGT TCCCCCTTC TCGCTGCCCT    360
GTAAACTCGA G                                     371

```

(2) INFORMATION FOR SEQ ID NO:743:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAAATGACTC TAGCCTGTGG AAAGAGAATC ATAATTCTAC GGACCTTTTA AATCCGCCAG	60
GAACCCTGAA TATCTATCTT TTTTGCTTGA CATGTCTCAT GACTTTTGCA GCCTTGGTGG	120
GCAGCATTTA TTCACTAATT TCCCTGCTGA AAATGCAGAA CAGAAGCTGT GTGTCCATGC	180
TTGTGGCTTC CTGGTCTGTG GATGATCTCA TGAGCGTCCT GTCGGTGACC ATCTTCATGT	240
TTTTCAGTG GCCAAACGAG GTCCCCGGT ACTTCCAATT TCTGTGCAAC ACCTCTCGAG	300

(2) INFORMATION FOR SEQ ID NO:744:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear.

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC TTCATGGCCT ACCCTAAGAG AAACCTCCTG GTGATAATCA CAGGGTCCAA	60
AAGTAAAGGA AACCTGGCAG TCTCTGGTGT CCATCATGTG CTTATTCCAC TTGGTAAAAT	120
AATTTGAGAT GCCTTCTAGT AAGGAATGGA CCTTAGTGGT GATGGTTAGT TGC GTTATGA	180
TGACAGCCAC TGGGTTGGAG TACTTAGAAA GCTTCCGAGT ACTAGACAGC TCCACAATT	240
CTTCAAAAGT ATCCATGGGA TACAAAGGCT TAGGATCATT GAGACACTGA ATCAAGGGCT	300
CAATCTGGTA AAAATCTGCT TCTTCCGAA GCAGATCAAA TTCCTTAAA TCCNACGGTA	360
AGGTCAATTC TGAAGTTCTT AAGAAGTTGA GGACATATCG GAAAAGAGGT CCATCTCGAT	420
CAATAAGTA ATTGCCTTGA GGTCTCGAG	450

(2) INFORMATION FOR SEQ ID NO:745:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:

GAATTCGGCC TTCATGGCCT ACTTATTAAC CCCAATCAAT AGAGTTGAGA GACTATGGCT	60
TTAAAAAATT AATGCAAACC TGGCTTTAGC TGTATAACA CCCACCGTAA GCACTTGGAC	120
TTAGTTATTA TAGACAAATG TAAAGAAAAT TTAATGAAAA ATAACACCCCT CTCTCTTAAA	180
AAAAAGAAGT CTCAGGCAAT AGATGCCTGG TACTATGAGG AAGAATGTTA GAAATAGAAG	240
TGAAATCCCA GAGAAGCCCN AAACCCCCCA ATCTCGAG	278

(2) INFORMATION FOR SEQ ID NO:746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:

```

GCAATATCAA ATAGCTAACT TCACCCCAA CCACAGTCCT TGCTGTTGGC ATTTACTCAA      60
CTAGTCTTTA ATTCCTGTTT GACAACTTT ATAAGGTGCT ACAAGACAGA TGATTTTCA      120
CCATCTACCA TAATGTGGAA CAGATATTTT GTCTTCTATC TCCTGCTTTT GTCAGCGTTT      180
ACGAGTCAAA CAGTATCCGG ACAAAGAAAG AAAGGACCAA AATCAAATTT GCTTGCAAGG      240
AAAAGTGATG TCCAGGGGCA CCTCGAG                                         267

```

## (2) INFORMATION FOR SEQ ID NO:747:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 287 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:

```

GTTCTACCTG GAATATGGTC CTTCTACCTG GAATATTTTT TCCTCAGGCC TTCTCTGGCT      60
TCTTCTCCTT TTATTCCTTG GATCTCAGCT TAATCATCTC TTTGGCAAGT ATCCATGATC      120
CAAACTGGGT TAGTGCCGCT CCCAAGACCC CCTTTATTAA CCCTGTACTG GCACTTAAAA      180
CATACTCTAT TGTATTTGCC AGCTCCTTGG CCTGTCTGCA AGTTCCTTCA GGCATGCTGC      240
CATCATTCTC ATTTATCACT GTATCTCCTG TGCCAGCAG TCTCGAG                                         287

```

## (2) INFORMATION FOR SEQ ID NO:748:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:748:

```

GAATTCGGCC TTCATGGCCT ACTTTATCTG CCTCTACACT CTCTTCTGGT TATTCAGGAT      60
ACCTTTGAAG GAATATTCTT TCGAAAAAGT CAGAGAAGAG AGCAGTTTGA GTGACATTCC      120
AGATGTCAAA AACGATTTTG CGTTCCTTCT TCACATGGTA GACCAGTATG ACCAGCTATA      180
TTCCAAGCGT TTGGTGTGT TCTTGTGAGA AGTTAGTGAA AATAAACTTA GGGAAATTAG      240
TTGAACCAT GAGTGGACAC AAGAAAAACT CGAG                                         274

```

## (2) INFORMATION FOR SEQ ID NO:749:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 345 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:749:

```

GAATTCGGCC TTCATGCCTA GGCAGTTTTT GTTGCCTGCC ATTTTTTTTT TTTTTTTTNG      60
CACATCTCAT TATATATTTC TTGTGATCTT TGGAAAGTGA ACATTTTACA GAATACATTA      120

```

```

TAGCAACTCT GAGTAACCTT CTCCCAGGTT TATTTGTATT TGCTCATTGC TTATTTATTT      180
ATTACTAGCT GGGTTTTTTT AGTGGCACCT ACTCCTCTCC CCACTTAACC CTCTGATGTT      240
ATGCTTGTTA TGCCTGATCA GGGCAGTTAC GGATTGAATT GTGTCCACTC AAAATGTATA      300
TGCTCATGCA CTGACCTCCA GTGCCTCAGA ATGTGACACC TCGAG                      345

```

## (2) INFORMATION FOR SEQ ID NO:750:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 289 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:750:

```

GAATTCGGCC TTCATGGCCT ATAGAGTAGT GATTTTGGTC AGCGTGTGTG CTATTTCCGT      60
GTTTCAGTTT TTCAGCTGGT GGAATAGCTA CAATAAGGCA ATCAGCTACC TAGCCACAGT      120
GCCCAAGTAC CGTATCCAAG CTACAGAGAT TGCCAAGCAG CAGGGACTGC TCAAAAAAGC      180
CAAAGAAAAA GGCAAAAACA AAAAGTCCAA AGAAGAAATT CGTGACGAGG AGGAGAACAT      240
CATAAAGAAC ATTATAAAAA GTAAAATAGA TATAAAGGGT GAACTCGAG                      289

```

## (2) INFORMATION FOR SEQ ID NO:751:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 336 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:751:

```

GAATTCGGCC TTCATGGCCT ACGTAGGCAG ATGGAGCTTG TTATAATTAT GCCCCATAGG      60
GATAGTACAA GGAAGGGGTA GGCTATGTGT TTTGTCAGGG GGTGAGAAT GAGTGTGAGG      120
CGTATTATAA CAAGCTCCAT CTGCCTACGA CAAACAGACC TAAATCGCT CATTGCATAC      180
TCTTCAATCA GCCACATAGC CCTCGTAGTA ACAGCCATTG TCATCCAAAC CCCCTGAAGC      240
TTCACCGGCG CAGTCATTCT CATAATCGCC CACGGGCTTA CATCCTCATT ACTATTCTGC      300
CTAGCAAACCT CAACTACGA ACGCACCTT CTCGAG                      336

```

## (2) INFORMATION FOR SEQ ID NO:752:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 280 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:752:

```

GAATTCGGCC TTCATGGCCT AAGGAAAGAA GAGCAACTTT GTCAGCTTGA GAAGGAACAG      60
AAAGCCGCCC TTCCAGCTA TTTCCAAAT AGAGTCAGCC TTTAACTGTG GATGTCCGAG      120
GTTGCGCTGA TTTTCAGGGC TATTCTCAA GAGAAAGGCA GAGTCAGTCT TCCTGCCTTT      180
CTACTCTCAG GCCTCTTCC TGAGTGCTAG AAGGAGCTCT TTTAGTTGGT TTATACCTCG      240
GGACCCTTAT TTCCCTCTCA CCCTCGGCC CAATCTCGAG                      280

```

## (2) INFORMATION FOR SEQ ID NO:753:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:

```
GAATTCGGCC TTCATGGCCT AAGAAGAAGT AACTGCCTT GCCTGGACTA TTTCCAATGA      60
TGCCAAACAA TAATTGTTGC CCCTTGTCTT TCTTAAAAGG AGACTGCATC CATTTAACCA      120
AACTAAGAAA TTTTCAATTA GTCCTCTGCT GAAGTCATAC TATACACATC TACTTAATTA      180
AAGATACATT TATTGAAGAG AACAGGTCTC CTCGGGGTTT ATCTGCTATA GCCTTGCTTA      240
GGAAAGGAAT AATAGTCTGT CTTTAAATTA GGTGTGGCTA TTGATTGGAG CAAATGTTGT      300
CAGGTGGCCC AAGCATGAAT CAATGAGTGA CCATGAGGTC ACCCATCAGT GAGGGCACCC      360
CTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:754:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 370 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

```
GAATTCGGCC TTCATGGCCT AACCTATTTG CCTCAGTCCT ATCTGATTCA TGAGCAATG      60
GTTATTACTG ATCGCATTGA AAACATTGAT CACCTGGGTT TCTTTATTTA TCGACTGTGT      120
CATGACAAGG AAACCTACAA ACTGCAACGC AGAGAAACTA TTAAAGGTAT TCAGAAACGT      180
GAAGCCAGCA ATTGTTTCGC AATTCGGCAT TTTGAAAACA AATTTGCCGT GGAAACTTTA      240
ATTTGTTCTT GAACAGTCAA GAAAAACATT ATTGAGGAAA ATTAATATCA CAGCATAACC      300
CCACCCTTTA CATTTTGTGC AGTGATTATT TTTTAAAGTC TTCTTTCATG TAAGTAGCAA      360
CGGGCTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:755:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

```
GAATTCGGCC TTCATGGCCT ATGGAAAAC ACTCATTCAT TCTTCAGAAC TGTTTTCAGG      60
ACTTCAAGGA GGCCTTCCCT AACCACCCTA TTTAACATTC CAGTTCTTGC ACCATCCCCA      120
CCCCTACTCT GCCCTCACTT TTTTCTCCAT GGCCTGGGC ACCAGCTGGC TAACTCTGTC      180
TTCAAAAAGT ACTTTTCTTT GGGGGAGGTT TTTCTTTTGT TTTTGTTTTC TTTCTTTTCAG      240
TCCTGTATCT TCAGCACTTA GAAGAGTTCA TGGCACACAT CTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:756:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 348 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

```
GCGCCGAGTG GGACAGCGCT GGTGCGGAGA CTGCTTCCGG ACTCCAGGTA CCGCGCTTGG      60
CGGCAGCTGG CCCAGACTT CTGTCTTTTC AGCTGCAGTG AAGGCTCGGG GCTGCAGAAT      120
TGCAACCTTG CCAATGGACC TGATCGGTTT TGGTTATGCA GCCCTCGTGA CATTGGAAG      180
CATTTTGGGA TATAAGCGGA GAGGTGGTGT TCCGTCTTTG ATTGCTGGTC TTTTGTGG      240
ATGTTTGGCC GGCTATGGAG CTTACCGTGT CTCCAATGAC AAACGAGATG TAAAAGTGTC      300
ACTGTTTACA GCTTCTTCC TGGTACCAT AATGGGTGTG TTCTCGAG      348
```

(2) INFORMATION FOR SEQ ID NO:757:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 300 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

```
GCGAGGTCAG GAGCTATGGG ATGGTATTAA TACATTGGCA GAGCAACCCA AGGGGGCAGC      60
ACATGCAGTG AACTGCCATG CAGAACTCCC GACGGGCCTC TTCCCATCC CAGAGTGGGG      120
AACAAACGCG CGTCACAGAC AAGGAAGTGG GTGCCCCCGT CCCCTCCCG ACCCCGAGAC      180
CCAGGAGTGC TGGGCTCCGA GCAAGTCTAT TGCAATGCTT CCTGGCCAAA GCTATATGGA      240
AAGCGGGAAC AGCAGGCTGG GGAGATGATG CTGGGGGGTG GGAAGGAAA GCGTCTCGAG      300
```

(2) INFORMATION FOR SEQ ID NO:758:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 393 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

```
GAATTCGGCC TTCATGGCCT AGAATATTTT ATTATAAATA TAATATATGA TTTTAAACC      60
TGTTTTGTG CCTCATATGC TGTCAGGTTA ATTTGTTTTC CTCGTGCCA GAGGTGGGGA      120
GGAAGGCACT CTGCTGCTG GGTAAATGCC TAAATTCAT CACCTTCATG GTTTGGGGGC      180
AGCATGGTCA TTGTGGATAT TGGTTTGTG GAGTTGAGG AACCTAGGAT ATAAGTTCAC      240
TCCCTCTATT TTCTTTGTG ATTCAGTTTT TCAGAAATCT TTTTCTTTC CCTTCTCCC      300
CATTGTGGAA ATTACAAATC AAAGGCCTTT TTCTTTAATG TAAAGTGAT TTATTTAAAA      360
AAAATACAAA ATAACTACA AGTCTATCTC GAG      393
```

(2) INFORMATION FOR SEQ ID NO:759:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 313 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

GAATTCGGCC	TTCATGGCCT	AAGCACATTC	AAGATGCCCA	CNAGAACCAT	CGTGTGGGC	60
TCATGTTTAT	TACTTAAGCA	AGAGAGCTCT	TACCCAAATT	CCTTGTTTC	CCCACTGTCA	120
GAAACAACAT	AGTCTGGAAC	TGGAGGCCTA	GAACTCTGGT	TGTATTTCT	GTAGTGGGTA	180
AAAGTCNACA	AAGATAATGA	ATGAGGCAGT	GTCTCCTCAT	GCCTTCATAT	TTTCTTTTGT	240
TATTTTAATT	TTTTTTTATT	TTTATTTT	GTGGGTGATA	GTAGGTATAC	GTATTTGTGG	300
GGTACGACTC	GAG					313

(2) INFORMATION FOR SEQ ID NO:760:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:760:

GGAAAAA	GGTAAGATGG	ATGAAAAGGA	GGAGAAGGAA	TTTAATACTA	AGGAAACCAG	60
AATGGATCTT	CAATAGGAA	CAGAGAAGGC	TGAAAAGAAT	GAAGGTAGGA	TGGATGCAGA	120
AAAGGTGGAA	AAGATGGCAG	CAATGAAAGA	AAAGCCTGCA	GAAAACACTT	TATTTCAAGG	180
CATACCCAAA	TAAAGGAGTG	GGTCAGGCTA	ATAAGCCTGA	TGAAACTAGT	AAAAGTAGTA	240
TTTCTGGCTG	TATCAGATGT	ATCTAGCAGT	AAACCAAGGT	CACTCGAG		288

(2) INFORMATION FOR SEQ ID NO:761:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 482 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:761:

GCTCGAGGCA	GGGGGAAATG	GCGGCTTCAG	GAGAGAGCGG	GACTTCAGGC	GGCGGAGGCA	60
GCACCGAGGA	AGCATTTATG	ACCTTCTACA	GTGAGGTGAA	ACAAATAGAG	AAGAGAGACT	120
CGGTTCTAAC	TTGAAAAAT	CAGATTGAAA	GACTGACCCG	TCCTGGTTCC	TCTTACTTCA	180
ATTTGAACCC	ATTTGAGGTT	CTTCAGATAG	ATCCTGAAGT	TACAGATGAA	GAAATAAAAA	240
AGAGGTTTCG	GCAGTTATCC	ATCTTGGTGC	ATCCAGACAA	AAATCAAGAT	GATGCTGACA	300
GAGCACAAAA	GGCTTTTGAA	GCTGTGGACA	AAGCTTACAA	GTTGCTACTG	GATCAGGAGC	360
AAAAGAAGAG	GNCCCTGGAT	GTAATTCANG	CAGGAAAAGA	ATACGTGGAA	CACACTGTGA	420
AAGAGCGAAA	AAAACAATTA	AAGAAGGAAG	GNNAACCTAC	NATTGTAGAG	GNGGNACTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:762:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 83 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:762:

```
GGGGGATGCC AACATTTAAA GCAAGAGGCA GAAGGGCTCC TGCAGGAGAC AGGGAATCGG      60
GAAGGCAGCA GGTAAACTC GAG                                         83
```

(2) INFORMATION FOR SEQ ID NO:763:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 296 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:

```
GAATTCGGCC TTCATGGCCT AGGAATTGAA AAGAAAGGCA GAGGAGGAAA GGATTCGCCT      60
AGAAAGAGGA AGCCCGAAAG CAGGAAGAAG AAAGGAAGCG GCAGGAAGAG GAAAAGAAAA      120
AACAGGAAGG GGAAGAGAAA AGAAAGGCAG GCGAGGAGGC CAAGCGGAAG GCTGAGGAGG      180
AGCTGTTGTT GAAAGAAAAG CAAGAACAAG AAAAAACAAGA GAAAGCCATG ATTGAAAAAGC      240
AGAAAGAAGC AGCAGAAACA AAGGCCCGGG AGGTAGCTGA ACAGATGCGT CTCGAG          296
```

(2) INFORMATION FOR SEQ ID NO:764:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 289 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:

```
GAAAAGAAAC TAACCAGGAT TCCCTCAGTG TTATTTACTG GGATTGGCAT ACGTGTTCAC      60
AGGCAGAGTA GTTGATCTCA CGCAACGGGT GATCTCACAA AACTGGTAAG TTTCTTATGC      120
TCATGAGCCC TCCCTTTTTT TTTTAAATT GGTGCCTGCA ACTTTCTTAA CAATGATTCT      180
ACTTCCTGGG CTATCACATT ATAATGCTCT TGGCCTCTTT TTTGCTGCTG TTTTGCTATT      240
CTTAAACTTA GGCCAAGTAC CAATGTTGGC TGTTAGAAGG GATCTCGAG          289
```

(2) INFORMATION FOR SEQ ID NO:765:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:

```

GCACCAAGAG ATGTTTATTA GGGCAATCAA AAGATGATT ATTATTTTTT AAAAAATCAA      60
TGTGGCCTTC CTTTCCTCTT TCTTTTGATT CCCCTCTTTG AGTTTTTATG TGTCTCTTTT    120
GCCTTCCCTT CCCAGAGTGG AGGAGTTAGA CCTGCATTGT GGGATGAGAG GAGTCTGGGC    180
TATGTGTCTG CTGGCACCAA GAGGGCTGAG GGTGAGGTGT GGAAGGGACA GGGGGAGGAG    240
ATGGGCAGCA TTGTTAAGAG ATTGGTACCA CTGAGCAAAT ATGTTGAGAA TGATGATTGG    300
CTCGAG                                     306

```

## (2) INFORMATION FOR SEQ ID NO:766:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 395 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

```

GAACTTTGAC ACCTACACTT AAATTCTGAG TCATTAAACA GGCCTACATT TATCAACTGT      60
GGAAATATCA GCCAGTTTTT GCAAACCTCT TCTTAGGACA CTAAGTTGTT TGCAGAAATC    120
ACTAGCATTG ACTGACTCAG CAACAATGTG GTTATATTCT TTGATTAACT TAGTCCTTTT    180
TCTTGGTCAA GAGTCAGTAG ACAGGACTGA AGCTTATGCC CCTTGCCCCC CCACCACCAC    240
TCCATTACTA CCACCTTGGT TTAGCCATCC TTTTCTTGAT CTGTTCTCCC CACTTCTACT    300
GTGCTACTCT ACAGACTTGC CCTGAATGTA AGAGCAACAA TTACCTTGTA AAGTCCAAGT    360
TGGGGCAGGT CACTCCCAA CTCCACAACC TCGAG                                     395

```

## (2) INFORMATION FOR SEQ ID NO:767:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

```

GAATTCGGCC TTCATGGCCT GCCTCGCTGC TTTCTTTTCT CCAAGACGGG CTGAGGATTG      60
TACAGCTCTA GGCGGAGTTG GGGCTCTTCG GATCGCTTAG ATTCTCCTCT TTGCTGCATT    120
TCCCCCAGC TCCTCGTTCT CCCGCGTCTG CCTGCGGACC CGGAGAAGGG AGAATGGAGA    180
GGGGGCTGCC GTCCTCTGCG GCCGTGCTCG CCCTCGTCCT CGCCCCGGCC GGCGCTTTTC    240
GCAACGATAA ATGTGGCGAA TCTCGAG                                     267

```

## (2) INFORMATION FOR SEQ ID NO:768:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 492 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:768:

```

GAATTCGGCC TTCATGGCCT AGCATGTCTT CTGCCTCGGC CTCCCGGGTA GCTGGGATGG      60
CAGGTGTGCA CCACCACGCC TGATTTTGTG ATTTTATAGTA GAGATGGGGT TCCATCCATC    120

```



```

CATTCTAGG CCATGAAGGC CGATCTTGTT TTCCTGAAAG TATGGCATCA AAAATACTTG 180
TAGAAAAACC TTGTCACAAC TGATTGGAAT GTTCCTATTT TCTTTTCCTT TGAAGTTGAT 240
ATTGGCTTGT AATGTCTCTT TTCATCATAT GTAATATCAG TGGAACAGGC AGCGCTACTC 300
AAGTCCTAAG GATTCTCAG TGATCAGTGA TCCAGGGCCG TTCATGAACC ACTGGGCTGG 360
ATTTGACTGT TGAGTGTGGC AGTTAATGCC CCTCAAGAAA TCAAAGGATG TCTTATAAGT 420
GTCTTCCAAA AAAAAAGCAA ATGCTGAAAT CCTATTGGCA AAGTAACTG AAATTGGCTG 480
CTACCACTCG AG 492

```

## (2) INFORMATION FOR SEQ ID NO:769:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

```

GAATTCGGCC TTCATGGCCT AACGTGAGCT GCAGGAGCTG GCCCGCAAGC TGCAGGAGCT 60
GGCCGATGCC TCAGAAAACC TCCTTACCGA GAACACGTGG CTCAAGATCC TGGTGGCGAC 120
CATGGAGAGG AACTGGAGG GCAGGGATGG AGCTGAAAGC CTGGCGGCCC AGAGAGAGGT 180
CCACCCCAAG CAGCCTGAGC CCTCAGCCAC CCCCAGCTC CTGGCAGCT CCCCTCCACC 240
TGCCCAATGC AGCGCCACAC TGGTGTCTGA AAGGAATAAG GAGAACAGGA CAGACTAACT 300
TTTTAAATGA TATGAAGTAA ACTCGAG 327

```

## (2) INFORMATION FOR SEQ ID NO:770:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:770:

```

GAATTCGGCC TTCATGGCCT AGTGGANTCT TGGAGATAAG CTGAGCTTGA TGCATTGCTA 60
CCACACACTC CAAACCATGA AGAAGGTACC GTTGGGCTTT TTGTTGTTGT GACAAAATCG 120
TAGGAAATGG CGCCTGTATT TCTTAATCTG TTCTCTAATC TTCTCATTAA AAAGAACTTC 180
AGTTAGAACA AGAGGGCCCA TGGCTTTTAC ATCCAGTCTT TCTGCTTCAG CAACGATTTC 240
TTTGTGAGAT GAATCAATAA CACCCTCTTC TTTCTTTTTC TTAACAAAAT CAAAGAGGAT 300
ATTGACCCTC TCCTCAATTG TTCTTTCCAA ATCATCACTG AGTGTCAGAA CTTTTCATG 360
GTCAGTGATT TCATCCATTG GACGCCCTTG AGCTTCCTCA GTTGTATCTT CTCGCCAGTC 420
ATCATCCTCC TCTTCTTCCA TTGTATGTGG AGGAGGATTA ATTCATTG GTGGTGGTGG 480
TGGTGGTGGT GTCTCACTGC TGGATACGGA ATTGAATTCT AGACCTGCCT CGAG 534

```

## (2) INFORMATION FOR SEQ ID NO:771:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:771:

```

GAATTCGGCC TTCATGGCCT ACTAGAATGT GTGACTCTGT GGGGACTGCA TAGGTTTGTT      60
AATTGACCTA TAGCTAAACC TTAATGTGTT TGTGTGTCTA TACATTGCTT TCCGCATTTT      120
AAGACATCCA GACGCTATTA CCAACATTTT CCTGTGCATT AACCTCTGCA TGTGAAAAC      180
TTTAACAGTT ACTGAACTAT GTAAATATGT GAATTTTTTT ATTTAGGTGG ATGCATTTTT      240
TGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCATTTTAAG GGTTGTATTG      300
GCAATTTTAA CTTAAATGT GCATCATGAT GGAAGGTGCA GACTTTTTTT GAAGTTTCCG      360
AGAGGAGGGT CTATAGACCA TTTGTCAGAA ATCAGATCAA CCCTCGAG      408

```

## (2) INFORMATION FOR SEQ ID NO:772:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

```

GAATTCGGCC TTCATGGTGT CGTCTCCATT CTGATGCATC AGCTCAAACA GCTCTGAGTC      60
CAGGATCTGG ATGAGGGAGC GCATGTTGGC AAAGTGGGTG TCCATGGCAC CCCCGTTGGG      120
GAAGTTCTGG CTCATCCTCT TCATGAGGTG GCTGAAGCAG CTGTAGGCCA GCTGATCATT      180
CTCGAGGGTG ACCAGGAGAG GCGCCAGCAG ATCGCACATG CCCTGCACAT AGCCACGTC      240
CAGGTGCTCC CACACGTAGC TGCACATGAC GTCTCTGAGC CTCTCGAG      288

```

## (2) INFORMATION FOR SEQ ID NO:773:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 255 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:

```

GAATTCGGCC TTCATGGCCT AATCCAGTGA CTGACAAAGC AAAATTGCAT GAAATTTACA      60
TTTTTTTCT TCTTGTAATT TAAAACTGG TTCTGTATA CCTTCCTGGA TCTTTATACT      120
TTTGATATCTT TTCTACCATT TCTGTAAAC CTCAACTGCA GGGTGCAATA ATGGGCCTTA      180
TTTTCTATAT TTCAGCAGGA CAGTTGCTGA AAATGGGTTT AAATCCACT GGCATTATAT      240
CCCACACAAC TCGAG      255

```

## (2) INFORMATION FOR SEQ ID NO:774:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 218 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:

```

GCNTTCAGGC CNAAGGTACT TTAATCAGTC TAAATACTTG AACATTTTAA TTTCAGTGGT      60
AAAAAATAGA CTGAGGCAGA GTGAAGTTAT AAATTAGAAT CTAAAAATTT ACCCTTCAAC      120

```

ATTAATATTT TTAGTGCCT CTAATATAAA ACACAGAAAA CCTATCTCAA ATATAAAAGA 180  
TGAATATAAA ATTATTAATT AAACAACNGG CGCTCGAG 218

## (2) INFORMATION FOR SEQ ID NO:775:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 257 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:775:

GCCTTCATGG CCTAGAAAGG AGCATCCCTG TTTTGGAGT CAGGACCATT CAGGGGGTGA 60  
 ACGAGGCCCA GGCCAGGTGC CTTTTGGAG CTGGAATAT TAAACCAGG ATGCCAAAAT 120  
 TGTAGTGTGA TCTCAGTCTT TACATTTAAC AATTATATAC ATTTTAAACA TGGAAGATTA 180  
 CAGTATAATT TATTTAGGCT AATCAGAAGC TAATTATAGG CTATTTAAAA ATGTTAATTT 240  
 GTAACACANT ACTCGAG 257

## (2) INFORMATION FOR SEQ ID NO:776:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 257 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:776:

GAATTCGGCC TTCATGGCCT AAAGAAACAA AGAAACAAAC CGTATATATA TATCTTCAGA 60  
 GTTAAAAAAT GGTGAGAACA AGAGCATTGT TTTATATATT TTTCAACTC TCTTAACTT 120  
 CTGGCTTAAT AGAAGACAGC TGCATTCTCA TTATTATTTA TTTATTTTTT TTTAGATGGT 180  
 GTCTCGCTCT GTCACCCATG CTGGAGTGCA GTGGCGTGAC CTTAGCTCAC TGCAACCACC 240  
 ACCTCCCCAG GCTCGAG 257

## (2) INFORMATION FOR SEQ ID NO:777:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 243 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:777:

AGCTTCATGG CCTAGTCTCA GGTTAAGTTT TTTGCAGTAA TCTTTCTTTC CCCTAGAAGT 60  
 GAGTAAAACT TTCTGTATCC CTTTTCTCC CCACCTATGT TCCCTAAAT AGTGATTCTC 120  
 TTACAAGGAA TTATTATCGC CCCTGCAGTT TTGGAAGGAT ACCTCCAAAA TATATCTTGG 180  
 GGACTTCGAT TTATAGAATT TGGTTAAGC TTAGATTCTG AGTCCCAGGG TACCTGCCTC 240  
 GAG 243

## (2) INFORMATION FOR SEQ ID NO:778:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

GCTGACAGGA GCATTATGAA GCAAATGGTC ATTGATACAG TTCTACTGAG GGAGTATAAC	60
ACTGGGATTT TGCAGCCTGT GGTGTTTCAGT CTCCTGACCT CTATGCCAGC ACACAGACAG	120
CAAGAAGCAG TGGGGAAGTT TGAGCTTCAA GCTCTACATT GGTTTGACAA AATCAATTCA	180
TCAGTGTCTC ATTCATTAAT GTGCTGTCTG ATACTGACAT TTGTCAATGG CTTGTTTCTG	240
GAAGCCCCTG GTCCTCAAGG CTGGTCAGCT CTACAGTCAC AGCCCCAGGG TGAACCCAG	300
CAACTCGAG	309

(2) INFORMATION FOR SEQ ID NO:779:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 255 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

GAATTCTAGA CCTGCCTCGA GCCTGGGTGA CAGAGTGAGA CAATGTCTCA AAATAATAAT	60
AATAATTTCA ACATGATTTT TGGTGGCGAC AAACAAACCA TATCCAAACC ATTTACTCAT	120
CCTAGTTCAG GACAGTGTCC TGGGACTGAC ACAAGGGCTC ACAGCCAGCT AGCACTGTGG	180
GCTCTCACGG GTCCCTTCTG CTGTTTTATT TTAGTAGTTA TTTATTTCCA TTCCTCACTT	240
CCACTACCAC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:780:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 156 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

GAATTCTAGA CCTGCCTCGA GCTAATGGGT GCATGCTACC ACGCCCGGGT AACTTTTTTTT	60
TTTCTGTTT TGTGTTGTTT TGTTTTTGAG ATGGAGTCTC ACTCTGTGTC TGAGGCTGGA	120
GTGCAATGGC ACGATCTCGG TCACTGCAA CTCGAG	156

(2) INFORMATION FOR SEQ ID NO:781:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

GAATTCGGCC TTCATGGCCT ACTCCACACA TTCATCTCCC AAAGGACTCC TTGAATATTT	60
GCCCCAAAAC ATCAGCTCCC AGAAAACACC CCTCCCAGTC ACACACACAC CCAAATTCTC	120
CGATGTATTT TCATTTTCTT TCTCCTCTTC TCTTCTCTT TTCCTTCCTT CCTTCTCTCT	180
TTTCTCTCTT NCCATCCCTC CCTTCCTTCC TCCCTCCCTT CCTTCCTCCC TCCCTTCCTT	240
CCTCCCTCCC TCCTTTCCTT CCTCCCCCA CCCACTCGAG	280

(2) INFORMATION FOR SEQ ID NO:782:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

GAATTCGGCC TTCATGGCCT AGCCGTGTTG TTAAGTGGTG AATGATAAGG CCTAGATCTG	60
GTAAGTCTTT TGTGCTCTCT AAGGTCTATT AATTTAATGT AGCAATCTTT CTTTTCCCTT	120
TTTCTTTCT AACCTCACAT CAACCTAACT GGCTACCTAA ATGTTTCATTG AATGACTGTT	180
TTTGCTTTGG GATAGAATCC TCCTTTTCTA TTTTATAGGT GTTAAATTGA TATAGTATTG	240
TTTAATAGCT AATAAGATAC ATTTTGGGCT AAGTTTCTTA GGCCATGAAG	290

(2) INFORMATION FOR SEQ ID NO:783:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 120 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

GAATTCTAGA CCTGCCTCGA GAATGGCTTT GCAGATCTGG GATCTTGTGT TCCTTCTTTC	60
TGGGTTGGTT TTATACGTTA ACTGTCAGAG GCATATGCCA CTTTATTCAG GTTCCTCGAG	120

(2) INFORMATION FOR SEQ ID NO:784:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:784:

GAATTCGGCC TTCATGGCCT AGTTTAGGTC AGTAGCAAAT GGGCCCAGTG GGAGAGAGTA	60
TGCCCAGAGT TTGGAGAGGG TCAGGGGTGTC GGGTGCTGGG ATGAGGGCTT CATGTTTGGA	120
AGACGCAAGG TAGAGAGCAA GAGAGGAGGA AAGGTAGAAC AGGATGGAGG GCAAGACCTG	180

TGTAAGAAGA AGTCTTAAAC TGTAACATG GGTGTAGTGA GGGTAGTGTG GCTAAGAGGA 240  
 AATGGATCCA GATGGGCTTG ATGGGTAGCA CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:785:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 233 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:

GAATTCTAGA CTTGCTCTCA GGCAGTGAAG GACTGGCACA TTGTGTAATA AACAGAATCA 60  
 AAGGCAGAAA TTAGATTACA AGCCACCTGA TGATGATAAA ATCAATCACC CTCATCAAAG 120  
 GGATTTGCTT TGTGTGTGTT TTTCTCTTTC ATTCTTGTGG ATGCAGACAG GATATTGAAC 180  
 AGCAGCTGGG CTCCTTGATC TTGGCAACAG ACATCAACAG GCAGCGTCTC GAG 233

(2) INFORMATION FOR SEQ ID NO:786:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:786:

GAAGATTTTG CCACTCTAAG GAGAGGTGAT ATTTGTATTT TTCTTTTAC TGAAACCAGA 60  
 TCGTGAGACA CGCTTTTCAT TCATACTGA AACTTGATAA AATGTTTGGC TTTATATTAA 120  
 TTTTCTCAAT TATAAGTGTG GGAAATGAAT TCGTTGATAA CCCTTTTCAA GTAAATGAAC 180  
 TGATTAGAAC CAGTAAGCTC GAG 203

(2) INFORMATION FOR SEQ ID NO:787:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 262 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

GAATTCGGCC TTCATGGCCT ACGAGATTGT CCTGGGTCAC ATAATGCCAG CTGAGCGTAA 60  
 AAAGCCAGCA AGTATGGAAG AAAAAGACTC TTTACCAAAC AACAAGGAAA AAGACTGCAG 120  
 TGAAAGGCGG ACAGTGAGCA GCAAGGAGAG GCCAAAAGAC GATATCAAGC TCACTGCCAA 180  
 GAAGGAGGTC AGCAAGGCCC CTGAAGACAA GAAGAAGAGA CTGGAAGATG ATAAGAGAAA 240  
 AAAGGAAGAC AAGAACCTCG AG 262

(2) INFORMATION FOR SEQ ID NO:788:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 259 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

```
GAATTCGGCC TTCATGGCCT ACAAACAGCT GGAATGTCT CCAAGCCAGA GTGGACTACT    60
AGTAGGTATT CGTTACTTCA TTGAATTCTG CAGTGCCCCC TTTTGGGGTG TAGTTGCAGA    120
CCGCTTTAAA AAAGGCAAAA TTGTCCTCCT CTTTCTCTT TTGTGTTGGG TTTTATTCAA    180
CCTGGGCATT GGATTGTCA AACCTGCTAC CTTGAGATGT GTACCAAAGA TTCGCCCAAC    240
AACTACCCCC CAACTCGAG                                     259
```

(2) INFORMATION FOR SEQ ID NO:789:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 152 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

```
ATACTTTAAG TTCTGGGATA CGTGTGCAGA GCATGCAGNT TTNTTACATA GGTATACACG    60
TGCCATGGTG GTTTGCTGCA CCCATCAACT CCTCATCTAC ATTAGGTATT TCTCCTAATG    120
CTATTCCTCC CTTAGTCCCC CGTCCCTCG AG                                     152
```

(2) INFORMATION FOR SEQ ID NO:790:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:790:

```
GAATTCGGCC TTCATGGCCT AGGCAAATTT GGCAGTGAAT ATGTACTGGA CTGTGATTAT    60
TTTTATTGTT TTAAAGTCA GCTTCCCTCC CTCCTTCCTC CTCCTCCTT CCCAAGCTGA    120
ATCTGAACCA AGGAAGTCTT CCTACAGAGC CACTGACTGG TCCCCACTAA GGCAGGGGTG    180
GAGGGAGGGG CAGGATGTTT TCCTCTCCAG CCTTTGTCTT GCAGCAGATC CCCAACTCGA    240
G                                     241
```

(2) INFORMATION FOR SEQ ID NO:791:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 182 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:791:

```

GTATTTGACT CAAAGTATTT TTTGACTGAT AGCAGTATAG CTCCTTCATT CCCTGCTCTC      50
TTTTGGTTAT CATTGTCATG AAATATAATT TTCTATCCCT TTACTTTTAC TGTGTCCATA      120
AAAGTGAAAT GAGTCTCTTA TGGGCAGGAT ATAGTTGGGC AATTTTATA CTAATTCTGC      180
CG                                                                           192

```

## (2) INFORMATION FOR SEQ ID NO:792:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

```

GAATTCGGCC TTCATGGCCT ACAATCTTCT TGGCCTGGCA CTAAGGACCT ACTACAGACT      60
GGCACTGAAA TATCTTCCCT ACCTTATCAT TCCTTGTGCT TCTCCACAAG CCCACTCTTC      120
CCCTTCATCA TACATGTGCC GACCTTTCCT GTCTCTTTTA CTTGCAGCA CCAATGCTT      180
TCTACTTTGT GGTCTAGGAG GAACACATGT CACTTTTGTA AGCTGCTCGA AAGCAGGGG      240
CACACCTTCA TCCTTGTTTT CCACACAACA CCAA                                     274

```

## (2) INFORMATION FOR SEQ ID NO:793:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 416 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

```

AATTCGCCTT TCANGCCTAG TGAGTAGTTA TCAACACCGG AGATGCATTA GATCAATCTC      60
TGGGGGCTTC TTCCTGGACC TGCTTCCATA TACACTTATT CATTGTGTCT TCACCGGACA      120
TGTTAAACTT CCAGAGTGAC TCTAATGTGC AGACATGGTG AACATCATTC GCTTAGCTGC      180
ATGTCAGCGC TCACTCAATG TCTGTGAACA GTGAAAGCTA CTTATTCTAC TTATAAGTTC      240
ATTAAGTCTG TGTATAACTA TTGCAAAGCA GAATAGTTGT CCCAGCCACC TGTGTTTGGG      300
GAGATGAAGC TGGGAGGCCA TCAACCTTCT TTGCAATAAA TTTCTCACG TTTGTCAAG      360
CAACCTGTTT TTTGTATTCT CAGCTAGAGG CTTTCATTCT CTATCCCCCA CTCGAG      416

```

## (2) INFORMATION FOR SEQ ID NO:794:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

```

GAGATGGATG TCTCTCTTTG CCCAGCCAAG TGAGTTTCTT GCGGATTTT CTTGCTGGGA      60
AGCGTCTGGC TGGACTATGT GGGCTCCGTG CTGGCTTGCC CTGCAAATTG TGTCTGCAGC      120
AAGACTGAGA TCAATTGCCG GCGGCCGGAC GATGGGAACC TCTTCCCCTT CCTGGAAGGG      180

```



CAGGATTCAG GGAACAGCAA TGGGAACGCC AGTATCAACA TCACGGACAT CTCAAGGAAT	240
ATCACTTCCA TACACATAGA GAACTGGCGC AGTCTTCACA CGCTCAACGC CGTGGACATG	300
GAGCTCTACA CCGAACTTCT CGAG	324

## (2) INFORMATION FOR SEQ ID NO:795:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:

GATTGGCCT TCATGGCCTA GCAAAAGGGA CAAGGGAGAG AACAGGAGTA GCAAAAATAA	60
AATAAGAAAT TATGATGCTG CTTTACCAG AGACAAGCTG CTGCCACCAC TAGGCTGGAA	120
CCTACAGGCT GCACCTGTCC CTAATTAGGG TATTGGATAC TATTCACACT GCTCCTGCAA	180
CAACTGCTAG CCTGTTCTAA TCAGTAACTT CTCTCTTCCT CCTGTCTTCT CACCCTCCAG	240
TTCTCTCTAA CAGGAACCCA GCTGGCAAAG ATGTCTGGGA AATGTCATTT GCATTCTCAG	300
CCCCAGCAGT GCAGAAAGGT AGGAGTGGGG CTGCGAAACA ACAGAAAAAT AAGGACCATA	360
GGTGACAAAG GAAATGCATA TACACTTCAC AGATGGCCCA TAAACATATA ATACAAAGAG	420
GTGCCTCGAG	430

## (2) INFORMATION FOR SEQ ID NO:796:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

GAATCGGCC TTCATGGCCT ACTCATGAAA TGTCCCAAAG TCTTCTCATT CTGTTCTTCC	60
CTCTCCTTTT CTTTGGTCTT ACTTCTGTAG ACTCTAGCAG AGATGGCATC CTGGGATGGA	120
ATGGCAGAGA TCTGATGCAG TGGCATGCTC ATCCCAACCT CTTATCTGGT CGTCTTCTTC	180
ACAGAAGAGA GTCTCCACTG GTAGAGTCAT TTTGGGCCAT GGATTTCAAG CTATGCTTTC	240
CTTCTGGCAC CCCGAATGTA CGCAGGTCTC TCGAG	275

## (2) INFORMATION FOR SEQ ID NO:797:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

GCACAATATT TCAAGCTATA CCAAGCATAC AATCAACTCC AAGCTCGGAA TTTTAATTAC	60
GAGGAGGTGA GTTGTGGCAA TAAAAATGAT TAAGGATACT AGTATAAGAG ATCAGGTTCG	120
TCCTTTAGTG TTGTGTATGG TTATCATTGG TTTCGAG	157

## (2) INFORMATION FOR SEQ ID NO:798:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:798:

```

GAATTCGGCC TTCATGCCAA ATGACCAGCC CCTACTGAAG TCCCCAGCAC CTCCTCTTCT      60
GCATGTAGCA GCCCTGGGCC AGAAGCAAGG GATCCTGGGA GCTCAGCCTC AGTTGATCTT      120
CCAGCCTCAC CGGATTCCCC CACTCTTTCC TCAGAAGCCT CTGAGTCTCT TCCAAACATC      180
CCACACACTT CACCTGAGCC ACCTGAACAG ATTTCTCTGC CGGGGCCCTC ATGGACGGTT      240
GGGCTCGAG                                     249

```

## (2) INFORMATION FOR SEQ ID NO:799:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:799:

```

GAATTCTAGA CCTGCCTCCC CCCCCCCTT TCAGAATAAT TTACATAAAT ACTCCTGAGT      60
TCAATTTTTT TNAATTTTTT TTCTGCTTTT ACTTATTACC CTTTAAGTGC TTGCTTACTT      120
TCTCTGATAA TTTACTTTCT TCTACTCTGT GATTTCTTTT ACAAATCAAT GAAATGGTGT      180
TGTCTTGTTT TCTCAAGTTT TTTCTGTGTA CCTTCCTGTG GGTCACTGGG ACATTCCAGT      240
CCGTTTTCCT CACTCTCCCT CTACCTTCTC CCCAGTTCTT TTAAAGAGAC ACATAATCTC      300
GAG                                     303

```

## (2) INFORMATION FOR SEQ ID NO:800:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:800:

```

GAATTTCCGC CTTATGGCC TAGCCATGCA ATATCTTTTG CATTACAGTG CAGTCTTTGA      60
GAAGAGCCAA GTGGGTGAGA GGTATATTTT CGGTGGTAGT TGAAGAGAAG GACAAATTAG      120
CACAGGAACA AGAAGTTTCT GTAGTTGTGT TTGAAGGCAG TAGAATTGCC TTTTAAAAGT      180
CATATCTGGA TGTTAAGCTC TCTCTGGGAT CCAGTTATTA GGATGAAGAA ATTCTGCCGT      240
TTAAGTGCCG GCCATTATA GAGGTGTGCT GTAACCTGTG TGGCTAGGTA ATTGTGCTGT      300
GTGAATTTTC TACTCAAGGT TGGTTTGGCA GAAAGTAGAA TTCTGAGTCT GGGTATAAAG      360
GGGTTTACTA ACATGGGAGA GATTTGTGTG GAACCCAAAC TCGAG                                     405

```

## (2) INFORMATION FOR SEQ ID NO:801:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 390 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:801:

```
GAATTGGCCT AATTAGCATC CTCAAGGACA CCAAATCAC GTGTGAGGAG AAGATGGTGT      60
CAATGGCCCG AAACACGTAC GGGGAGTCCA AGGGCCGGTG AGGGAGGGTA TTGCCCTCCG      120
TGAGCACAGA GACTCTCCAT GGGAGGGGGA GCAGTATTCT CCTGGATCCT GGGGCTGGG      180
TGGGCTGGGG GACAGCTGAG GATGGGCCTA GCAGATGAAG CTTGCCAGCA AGGCCAAAGC      240
AAACGGTTTC TCCTGTGGAT AGTGGACAGA GACCTTTGTA ACCAATGGAA TTATTCATTT      300
TTCTCTATCT TTTATTTTTT CAAAGATATT ATTTGACTCT ATCAAAAGTC TCTCCTTTT      360
AAACCTTTTC TTATGGCGGG CTATCTCGAG      390
```

(2) INFORMATION FOR SEQ ID NO:802:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 231 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:802:

```
GAATTCGGCC TTCNTGGCCT ACTTTTGGAC CTCTGAGTT TTAGTTGTC CACTGAGTTT      60
TAGGTNAAAA AGAAAAAAA AAAGGAAAAA TTATCTGTAA CCTCAAGACT TTTTATGAGG      120
ATTATGATTT TACTGTGTTT GATAATAAAT GCCTTTTGCA TGCACTGGTT TTCAGCATAC      180
AGTTATGAAC ATTCCTAGT GGATGAGCTT AAAAAAGGGG AAAAGCTCGA G      231
```

(2) INFORMATION FOR SEQ ID NO:803:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 492 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:

```
GGGACAAGGA CCGTGCAGT GCGTGACAT GACAGACGGA CCTGNTCAGC GTCCTATTTG      60
CAGTGATGTT CGAGTTTAGC CACCGTACTG TGGACATGCA CCCAGACAGC GGATTAAACG      120
TTAGTGTGTA CCCTATTTCC AGAAGAAAGG GTCCAAGAAA CACCCACACA GATCCCAAAT      180
GCAGCACACC TGTGTGTGGG CCTTCATCTT TTGGAGCCCA CCAATGCCTG CCATCCCTAA      240
CAACTGCCTT CGCACCACCC AGGGATCAAG GCATTCTGTT TTTCGGAACG TGCTCCGACA      300
GTGGAGAAAGT GCAGCATGGG AAGGTTGTAT CTAGGAACTT GAAGCAAATA AATTCCTTTT      360
AATTCATGCT TGTGATCCCT GTTATTCTGT CTCTGAACCTG TGCCTTTATG CTCCAGATTA      420
GCTTTGAATC TTATTGCTAG ATTCTCCAAT CTGTTTACAA AATAAATGCA CCTAATCTTC      480
GCCTGCCTCG AG      492
```

(2) INFORMATION FOR SEQ ID NO:804:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 444 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

```
GATACATAGT TCAATTCAGT TCAATCAAAA CCATTCAATA CATATTTACT GAGTCCCTTC      60
TGCGTGTCTAG GCACTGTTTC AGGCACTTGT GATATATCAG TGAACAAAAAC AAAGGCCCTC      120
GCCCACATGG AGCTTACATT ATAGCCAGGG GAAACAACAG TATACAATAA ACACAAATAT      180
GTGAAGTATC TAGGGTGATA GGTGATATGA AAAACATAGA GCAGGTGAAA GGGGTATGGG      240
ATTTCTCGAT CTGGAAGGTA GACAGCTGCA GTATTAAATA GTATGGACAG GATAGGCTTC      300
AGTAAGAAGG CAACAATTGA GCAAAGATGA GTAGGTAAGG GTATAGGGCA TCTGCAACAG      360
CTAGTGAAAC GGCCCAAAGG TTAGAACAAG GCTGGAGTTC GGGAGAGGTC TGGGCTGGAG      420
ATGTAGNCCA TGAAGGCCGA ATTC                                         444
```

(2) INFORMATION FOR SEQ ID NO:805:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 352 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

```
GAATTCGGCT TTCATGGCCT ACAAGAAGCT GGAGGAAAAA AATACGCTGG CTCAGGGCTT      60
TCAGAGAAGA GAGGAAAATG GTACAGGAAG ATGAAAAAAT TGGCTTGAA ATTTCTGAAA      120
ACCAGAAGAG GCAGGCTGCA ATGACTGTGA GAAAAGTCCC TAAGCAAAAA GGTGTCAACT      180
CTGCCCCGTT CAGNTCCTCC TTCTTACCCA CCACCGCAGG ACCCGTTAAA CCACGGCCAG      240
TACCTGGTCC CCGACGGCAT CGCTCAGTCG CAGGTTTTTG AGTTCACCGA ACCCAAGCGC      300
AGCCAGTCAC CATTTTGGCA AACTTCAGC ATGTTAACCC CCATCACTCG AG              352
```

(2) INFORMATION FOR SEQ ID NO:806:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

```
GCACCCCGGG AGCTGAGTGA TTGCAGAAAC TGGCCTTCCA TCTCTCTCAG ACACCAAGCT      60
GCAGATCCAG GCTTTTCTGG GAAAGTGAGG CCACCATGGC TCTGGAGAAG TCTCTTGCTC      120
GGCTCCTTCT GCTTGTCTCG ATACTGCTGG TGCTGGGCTG GGTCCAGCCT TCCCTGGGCA      180
AGGAATCCCG GGCCAAGAAA TTCCAGCGGC AGCATATGGA CTCAGACAGT TCCCCAGCA      240
GCAGCTCCAC CTACTGTAAC CAAGGTCTCG AG                                         272
```

(2) INFORMATION FOR SEQ ID NO:807:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:

```
GCCTTCATGG CCTAGGAGAA GAGCGGAGCG TGTGAGCAGT ACTGCGGCCT CCTCTCCTCT      60
CCTAACCTCG CTCTCCGGGC CTACCTTTAC CCGCCCCACC CTCAGGAACT TTTGTTAGGA      120
AAAAATTGAA AGAACTTAAG TCTCGAATGT AATTGGAATC TTCACCTCAG AGTGGAGTTG      180
AAACTGCTAT AGCCTAAGCG GCTGTTTACT GCTTTTCATT AGCAGTTGCT CACATGTCTT      240
TGGGTGGGGG GGAGAAGAAG AATTGGCCAA GCTCGAG                                277
```

(2) INFORMATION FOR SEQ ID NO:808:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:

```
GAATTCGGCC TTCATGGCCT AAACACAGAA AAACCAACTT TCTGATACCT TTCTCCCTGT      60
ATGTTTATCT TCTTTGTCTA GTTTTTCAGC AGAAATATGC CCGTTTCCCC CTGATAATTC      120
CCTTCCTTAG AGACAGCATA ATTGTAGACC TGGCCAGAGA AATGCTGAAA ACRAAGGGAA      180
CCCCCTTGAG CCCAGCCCTT CACCTGCTCT TAGCACTTCT TCAGAGGTTT ACTCTGGAGT      240
GAATGAAGTA GTGTGACCAG AACTCCTGG CACCTCGAG                                279
```

(2) INFORMATION FOR SEQ ID NO:809:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:809:

```
GAATTCGGCC TTCATGGCCT ACCTTCGCCT TCTGTCTTTC TGCGTCCTAC TAGCAGGTGT      60
TTACTCCAAT TCCTATGGGC CAGAGTTTGC TCACTGCAGA GAAATACAGT GGAATTCGCT      120
GGGCAATGGT TTGGCTTATG AAGACTTTAG TTTCCCCATC TTTCTTCTTG AAGATGAAAA      180
TGAACCAAAA GTCATCAAGC AGTGCTATCA AGATCACAAAC CTGAGTCAGA ATGGCTCAGC      240
ACTCGAG                                247
```

(2) INFORMATION FOR SEQ ID NO:810:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 561 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:

```

GAATTCGGCC AAAGAGGCCT ACCCGGGCTC AGTGTGCCGA CTTCTGACTG CAAATGATCT    60
CATTTTCTAA AATCTTTCTC CCATTCTCCT TTAAGAAAAA ATCTTAGTTA TTAATAATCT    120
GCCTCACAAA CTTAGAAATG CTTAGAGTA AGTATCTGAG AAGCAAGCCC ACCCCACATC    180
CACCATATAT CATCGTTTCT GTTAAGGGCC ANCCCATTTT TTCAGACAAA TTCTATCTTC    240
TTCTCCCAT CCCACTTACT TTTGACTTTG AAGGTGGATT ATCTCATCTC AAATTTCTCT    300
NCCAGAATAG NACCACATTT CAGCAAAATA TTGGGTGGCT GGTTCTTTTC TTCAAGACCC    360
ACCTGCATCT GTGTTGGTCC TCTATGTGAG GAAGGTCTCT TATGTGAGAA GATCTGAGGG    420
GTAGGCAGGT TTAATGGAC TAAGATTTT TTTATATGTA TAAGGGGGGT GGGAGGAGGA    480
TTTtagAAAA CTAGATCCAT TGGCTGCAG TTAGAAGTCG AACACTGAAC TTGGAAGGC    540
TTTCTGTGGC CGAACCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:811:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:

```

GAATTCGGCC AAAGAGGCCT ATCAATTNGT TTTNTTACTT GGACTGTGA TTTATTATNT    60
NTAATTATNG TNAANTNNTA AAGCTCAATT TTACCAGCTT CAGCAGTTT AAGTGTATAG    120
TTGCACAACA CNACATAACT CATCTAAGGT GAATTATACT GTAATTTTCT TTTNGTGCCT    180
AGCTTTTTGC NATTACCATA GTATCCTGAA GTTTTGTGAT TGTNGTACCA TGAGACAGGA    240
TGTATAAGA TTAATATTTC AATGTATATA TATGCCTAGC ATATTTTCNT TATGCATGCA    300
GCCACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:812:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:

```

GAATTCGGCC AAAGAGGCCT AGGCGGCAGG AGGCAGTGGC GTTGGTGGGA AGCGCAGCTC    60
GAAAAGCGAT GCCGATTCTG GTTTCCTGGG GCTGCGGCCC ACTTCGGTGG ACCCAGCGCT    120
GAGGCGGCGG CGGCGAGGCC CAAGAAATAA GAAGCGGGGC TGGCGGCGGC TTGCTCAGGA    180
GCCGCTGGGG CTGGAGGTTG ACCAGTTCCT GGAAGACGTG CGGCTACAGG AGCGCACGAG    240
CGGTGGCTTG TTGTCAGAGG CCCCAAATGA AAAACTCTTC TTCGTGGACA CTGGCTCCAA    300
GGAAAAAGGG CTGACAAAGA AGAGAACCAG AGTCCAGAAG AAGTCACTGC TTCTCAAGAA    360
ACCCCTTCGG GTTGACCTCA TCCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:813:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

```
GAATTCGGCC AAAGAGGCCT AAGCAAGCTC TGCTTTAGTT TCCAAGAAGA TTACAAAGAA      60
TTTAGAGATG TATTTGTCAA GATTCCTGTC GATTCATGCC CTTTGGGTGA CCGTGTCCTC      120
AGTGATGCAG CCCTACCCCT TGGTTTGGGG ACATTATGAT TTGTGTAAGA CTCAGATTGA      180
CACGGAAGAA GGGAAAGTTT GGGATTACAT GGCCTGCCAG CCGGAATCCA CCGACATGAC      240
AAAATATCTG AAAGTGAAAC TCGATCCTCC GGATATTACC TGTGGAGACC CTCCTGAGAC      300
GTTCTGTGCA ATGGGCAATC CCTACATGTG CAATAATGAG TGTGATGCGA GTACCCCTGA      360
GCTGGCACAC CCCCCTGAGC TGATGTTTGA TTTTGAAGGA AGACATCCCT CCACATTTTG      420
GCAGTCTGCC ACTTGAAGG AGTATCCCAA GCTTCTCGAG                                460
```

(2) INFORMATION FOR SEQ ID NO:814:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 225 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

```
GAATTCGGCC AAAGAGGCCT AAAGTGCTTT AAAACAATTT TTCACTGTGG ACAACCGAAG      60
ACCACAAAAC ATTTGAGAAC TACCATGACA GACAGAGAAC AAAATTACAA AACAGAAAAA      120
GTTAAAAAAC AGGAGAACTG CACCACTGCA CTCAGTCTG GATACCAGAG AGAGACTCCA      180
TCTCAAAACA AACAAAACA AACAAAAAAA CCCCAAAAAC TCGAG                                225
```

(2) INFORMATION FOR SEQ ID NO:815:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 140 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

```
GAATTCGGCC AAAGAGGCCT ATTTATCGTT TAAAAAAGTC AGTAGAACTA AACATGAAAG      60
TGATTCTTCT GATTTTTTGG GGGGTGGTTA TTTGCACATG GAAACAACAA CAAAAATGCT      120
TCAGATACAA TTGCTCGAG                                140
```

(2) INFORMATION FOR SEQ ID NO:816:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 540 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

GAATTCGGCC	AAAGAGTCCT	AAAACCAACA	AGCCAGGCTG	ATTTTCTAGA	GGGATCAGTG	60
ATGTGGGGTA	CAATGACACC	TTCCCTGTGG	CTTGTTATGC	CTCCGGTTTT	GTTTTTGAAT	120
CTTGGTTGCT	GGTGGGGTAT	TGCCCCCTCG	GCTCCTCTAT	GCTTTCGCGT	GTGTGAAAAT	180
GCAGGAGTGC	ACCACTGTGC	ACAGCAGGAC	CATGGCTGTG	AGCAGCTGTG	TCTGAACACG	240
GAGGATTCCCT	TCGTCTGCCA	GTGCTCAGAA	GGCTTCCTCA	TCAACGAGGA	CCTCAAGACC	300
TGCTCCCGGG	TGGATTACTG	CCTGTGTAGT	GACCATGGTT	GTGAATACTC	CTGTGTCAAC	360
ATGGACAGAT	CCTTGGCCTG	TCAGTGTCTT	GAGGGACACG	TGCTCCGCAG	CGATGGGAAG	420
ACGTGTGCAA	AATTGGACTC	TTGTGCTCTG	GGGGACCACG	GTGTGGAACA	TTCGTGTGTA	480
AGCAGTGAAG	ATTCGTTTGT	GTGCCAGTGC	TTTGAAGGTT	ATATACTCCG	TGATCTCGAG	540

## (2) INFORMATION FOR SEQ ID NO:817:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 597 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

GAATTCGGCC	ANANAGGCCT	ACTNNNAGGC	CTGTCCGANAN	GGGTTGGGTN	CTGANGTGAC	60
AGCTTTCCCC	NTCCATGGGA	CNCNTTCCCA	GACNNTCGNC	ACNTCTNCTG	AGGTGAATTN	120
NCTGTGGGTN	TTANGTCTGG	GGTGGANNNT	CTCTCTCCCC	NNNTCTNACT	TCNGTAGATG	180
TGGACCTNGN	CCNNCNNTCC	ATTGGTCCNC	TGCCCTGTGT	CTCCAGGGTG	CTGCCTCTGC	240
CTCCTCATAT	CACCAGCGTC	CCCCTGCGCA	CTAGTCTGTA	GGGGGATTCC	GGGCTAGGTG	300
CTCTTCCCAT	TCGACTTCAA	CCAATTATA	TAGCTCCATG	GTGGCCTGGG	CATCTTCCAC	360
AGAGGATGTC	CGCTCTTCCC	NACCTGGATA	TCCCGTTTAA	GCAGCTTCTT	GGTGAGATGC	420
TTCAGAGACA	TGGTGGCATT	CTCCGGGCAG	TCAGCCTTCC	GTTTGAGGGG	GGGGATATGG	480
GAGGTGTAC	GGGTGAGGGA	CTTGGGGTGA	AAGTACTGAA	GGGCTTTGAA	GTCGTTGTGG	540
ATGGCATGCC	CCACCACTAT	CTTNCCTGT	GAGTATCTTC	AAGATCTGCC	CCTCGAG	597

## (2) INFORMATION FOR SEQ ID NO:818:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

GAATTCGGCC	AAAGAGGCCT	AGGAAATGAA	ACGAATGCAT	AAAGCTCTCC	AGAAAGATCT	60
GCCAAGACCA	TCAGAAGTAA	ATGAACTAT	TCTAAGACCC	TTAAATGTAG	AACCGCCTTT	120
AACAGATTTA	CAGAAAAGTG	AAGAACTAAT	CAAAAAGAA	ATGATCACAA	TGCTTCATTA	180
TGACCTTCTA	CATCACCCTT	ATGAACCATC	TGGAAATAAA	AAAGGCAAAA	CTGTAGGGTT	240
TGGTACCAAT	AATTCAGAGC	ACATTACCTA	TCTGGAACAT	AATCCTTATG	AAAAGTTCTC	300
CAAAGAAGAG	CTGAAAAAGG	CCCAGGATGT	TTTGGTGCAG	GAGATGGAAG	TGGTTAAACA	360
AGGAATGAGC	CATGGAGAGC	TCTCAAGTGA	AGCTTATAAC	CAGGTGTGGG	AAGAATGCTA	420
CAGTCAAGTT	TTATATCTTC	CTGGGCAGAG	CCGCTACACA	CGGGCCAATC	TGGCTAGTAA	480
AAAGGACAGA	ATTGAATCAC	TTGAAAAGAG	GCTCGAG			517

## (2) INFORMATION FOR SEQ ID NO:819:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 332 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

```
GAATTCGGCC AAAGAGGCCT ACTAAATTCT CATATATCTG TGTTCCTAGA ATACTTTGCC      60
TTTTTGGGCT TAGTTAATGG TAAGATTCTC ATGTCTGTCT ACATAGGAAT ACTCCACCGT      120
ACAGGACACT GCTTCTGGG TTTAGTTCAT TGATAATTG TCCGAATGCT CATAAACATG      180
TCTATAGGAA TACTCCAATA TATCTAGGAC ACAGTTTCT CCGCTCCTGA ATACAGGCAG      240
ATTTTGTTTC TTTCTGCCTC CCTGTGTAA TGAGAAGGTA GTCCAGCAGG TTCTCTCTAC      300
CTCCTTGCTT TTTTTCCTCC TTAATGCTCG AG                                     332
```

(2) INFORMATION FOR SEQ ID NO:820:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 340 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:

```
GAATTCGGCC AAAGAGGCCT AACCTGCTCC GTGGAGCGCC TGAAACACCA GTCTTTGGGG      60
CCAGTGCCTC AGTTTCAATC CAGGTAACCT TTAAATGAAA CTGCTCTAAA ATCTTAGGTC      120
ATACACAGAA GAGACTCCAA TCGACAAGAA GCTGGAAAAG AATGATGTTG TCCTTAAACA      180
ACCTACAGAA TATCATCTAT AACCCGGTAA TCCCGTATGT TGGCACCATT CCCGATCAGC      240
TGGATCCTGG AACTTGTATT GTGATATGTG GGCATGTTCC TAGTGACGCA GACAGATTCC      300
AGGTGGATCT GCAGAAATGGC AGCAGTATGA ATACCTCGAG                                     340
```

(2) INFORMATION FOR SEQ ID NO:821:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 518 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:

```
GAATTCGGCC AAAGAGGCCT AGGAGCTATA ATCTTGTAAC AGAGTCTACG TGATTGTAGG      60
ACAATAGGCA CCACACAAAT ATGAGGAAGC AGGTCAGAGA GCGGGCTGAC TTAATGATTA      120
ATGCTGAATG TGCTACAAGC TTGTTTCATT TTCATTTCTC CTCCTCCCTT TTTTCCTGAT      180
TAATTTAATA AAGTTCATAG GGGAGGCTTC AAACACATGA GAAATTAAAA CCTTTATTAC      240
CAGAGTCAGA GCCTGACTAT ATTGATTGAG TGAAGCTTTC CTTTATAAAA TGCAAAGCAT      300
GTAAACAATT CCAACACAGT AACATATTCA TGAGTTTTTA AATTCATGAG TTTTAGAGAA      360
AATATTTTAC TTAACCACAG CACTTGATGA TCTCTGACAA TGTTATGTAG CCTGAACCTG      420
GAGTTTGGC TGATGGGTTG TCTCAGCCTG TGACAGGTTT TAGCTGGCTT TGGTTCATCT      480
TGTATCACAC CCCCACTC ACATGCTCAC CACTCGAG                                     518
```

(2) INFORMATION FOR SEQ ID NO:822:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

```
GAATTCGGCC AAAGAATTCT AGACCTGCCT CGTCCGTAAG GCAATTGAAT CGAGGGTTAA      60
GGGTTCATCT TGCTAATGTC AAAAGTGACA CTAACAAGAT TCTTAGCCTC ATCCGCCAGA      120
TGACGGGCCT CCGCTCGAG                                          139
```

(2) INFORMATION FOR SEQ ID NO:823:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 302 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

```
GAATTCGGCC AAAGAGGCCT AAGATGAGAA AATCAAGGTT CTTAGATGTT CTGGAATTG      60
TTCATTTTCA CATGATTGGA ACATTGTGGT CTTGTCTTTC AAGTCCATGT CTACCATACT      120
CCACAGACCC TTTTCTGTCC ACTTTGTCAC CTATAATTCT GAACTCCAAT ATAAAGACTT      180
CACCGTATTT GAAAGAGAAT AGTGGGAAGT CTGATGCTCA ATTTGTGTA CAGAACAGTT      240
GCCTCTGTGA CATTGTAAGT GCTGAAATAA GAAAATCCCC TTTTGATTCA GGAGCTCTCG      300
AG                                          302
```

(2) INFORMATION FOR SEQ ID NO:824:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 291 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

```
GAATTCGGCC AAAGAGGCCT AAATCAGCAG TGAAGTCAGA ATCAATTGAG TGACATNGAG      60
TCAGTAAATC TCTGACTGCC TCAGTTACCC CATATGATAG TTTTGAGGAT GGGAACATTG      120
AGAGAGTTGA TTTGGAAGCA TATCAAGAGT AAAAATTCCA ACATTTTATG TTCCTTTAAG      180
TTAAATCCAG GCACTGTCTT TTCCTGCAAG TCTCCTGTTT CTTTCAGATT GCACAGGTGA      240
GAGTGCTCAG ATTAGGGCTG GAGGTTGTAA ACCATTGCTC CCGTCCTCGA G          291
```

(2) INFORMATION FOR SEQ ID NO:825:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 545 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

```

GAATTCGGCC AAAGAGGCCT AAGCTTTTTC TTTTTCACAG GACTTCACAG AGAATGCACT    60
TGTNTTGACT TCAGGTCTGT CTGTTCTGTN GGCAAGTAAA TGCAGTACTG TTCTGATCCC    120
GCTGCTATTA GAATGCATTG TGAACGACT GGAGTATGAT TAAAAGTTGT GTTCCCAAT    180
GCTTGAGTA GTGATTGTTG AAGGAAAAAA TCCAGCTGAG TGATAAAGGC TGAGTGTGTA    240
GGAAATTTCT GCAGTTTAA GCAGTCGTAT TTGTGATTGA AGCTGAGTAC ATTTTGCTGG    300
TGTATTTTTC GGTAAAATGC TTTTGTTC TTTCTGGTGG TGGGAGGGGA CTGAAGCCTT    360
TAGTCTTTTC CAGATGCAAC CTTAAAATCA GTGACAAGAA ACATTCCAAA CAAGCAACAG    420
TCTTCAAGAA ATTAACTGG CAAGTGGAAA TGTTTAAACA GTTCAGTGAT CTTTAGTGCA    480
TTGTTTATGT GTGGGTTTCT CTCTCCCTC CTTGGTCTT AATTCTTACA TGCAGGGAAC    540
TCGAG                                         545

```

(2) INFORMATION FOR SEQ ID NO:826:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 91 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

```

GAATTCGGCC AAAGAGGCCT AGGTGGTGGG ATCAAGGCCA TGAAGGACCT GTTTATGCGG    60
TGCATGCTGT TTACCAGAGG AGGGCCTCGA G                                         91

```

(2) INFORMATION FOR SEQ ID NO:827:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

```

GAATTCGGCC AAAGAGGCCT ACTAAGAAAT GCTATTGGAT CTTTAGTTTG TTCAGCTTTA    60
TTTTCTTAT AAGGATGAAA GTGTGACTT ACAAGCTCTT TATATATCAG ACCAGAACT    120
ACTTTTAAAA AAATATAAAA TGTAATCACC ATCTAAAGCA CTTCGACAAA TGCATGGCAT    180
GTAGTGAGCA CATATTTTTC GCTCTTACTG TTATTTATTA TTATTCCATT GAGAAAAACA    240
TTTCCTAATA ATAATGAAAT GACAACATGA TATGGTAGCA TCACAAAAAT CAATACATCT    300
TTCTAAACAT ATTAGAAATT ATTTCTGTAT GAAATAACAG GTTTAAGGAA AAAATTTAAT    360
GTGGTCAGAA GTGTGCAATC AAAATAATGA GATGACATTG GCATGAAGAA CAAACTCGAG    420

```

(2) INFORMATION FOR SEQ ID NO:828:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:828:

```

GAATTCGGCC AAAGAGGCCT AGAATTCTAG ACCTGCCTCG AGCTTAGGGT GACAGAGTGA      60
GACTCCGTCT CAAGAACTAG AAGAGTCCTG AAGTTCCTTC TGGAGTATTG GTGTGATAGA      120
AGCATTAGTA GTTCTTTTA TGTCTGGAG AACTTCTGTG CACATAAATG TTTATAGATA      180
TATACCCCGT TTGTATACCA AAGGAATCTT CATTATTTT CACTGAACAA AACACCTTAG      240
AGAACATTTC GTTGTTTTG CCAATCAATC TAATTCCTTT AAATGACCAC ATAGTATCCC      300
ACGGTAAGTT TTTTGTGTTG TTTTTTTAA AATCATGATT TGTTTAAACA TGTCCTATTG      360
CTCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:829:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

```

GAATTCGGCC AAAGAGGCCT AATGTTTTTC AATACCTCAG TATATTGTAG GGAATTGTTG      60
AGAACTTGTT GAATGAATAT ATTGTCAGA GTTTACCATT ACTCAGTATT TTAGTTGTCA      120
CATCTTAAA TAGATAATCA TTTTACCAT CACTCCCT TCATAAGATA TAGAAATAAA      180
GCCCTTCTTG TTGGAAATG GTGGTATTTT GGTTTTACTT TTTTAAAGT TACTGTTGTA      240
AGGTACTACT TTAATATTTT TATTTAACTT TATTGTTTG TCTTTAGTAG GACTAAGCTA      300
ATGAGAGCTT TGAATTGCTT AAACGTTGGG CAGGAAAACG CGAG

```

## (2) INFORMATION FOR SEQ ID NO:830:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

```

GAATTCGGCC AAAGAGGTCT AGAAGACTTT TGTATTTTGG ACTTTGCTAG TTTGTGCCAG      60
AGTGGAGAGG ACGGGTGGAT ATTTCAAATT TTTTAGTAT AGCGTATCGC AAGGGTTTGA      120
CACGGCTGCC AGCGACTCTA GGCTTCCAGT CTGTGTTTGG TTTTATTCT TATCATTATT      180
ATGATTGTTA TTATATTATT ATTTATTTT AGTTGTTGTG CTAAACTCAA TAATGCTGTT      240
CTAACTACAG TGCTCAATAA AATGATTAAT GACAGGATGG GGTCCCCTG TGCTTTTACC      300
AGTAGCATGA CCCTTCCTGA AGCCATCCGT AGAAAGTACC TTGTCCTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:831:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:

GAATTCGGCC	AAAGAGGCCT	AAAACAAGAT	CCACTGGAGG	GTCATGTCTG	AGTTGTTCTC	60
TTGATGATTT	TGGCTGATTA	TCTTAATGCC	CTTTTCCATT	TCTGATGCTC	TTGTTCTACA	120
TTTTGGGTGA	AAATACCAAT	ATTTCTAATT	CTGTATCACA	TCATCTCACT	GTGTAGCAAG	180
GCAGGTCTCC	ACAAATTACC	CCGTTCCACC	TGGAGAGCTC	CTTATTGACT	TAACGTGATA	240
TTCAGCCAGG	TTTTTCTTCC	TGTAATAGTT	GCTTGCCTT	TAGCAAATTG	CCTGGATCAT	300
TGACCTTTCT	TAGCCCATGC	ATAAATGCC	AACTCGAG			338

## (2) INFORMATION FOR SEQ ID NO:832:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 412 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:

GAATTCGGCC	AAAGAGGCCT	AATATTATAG	AACCACCATA	TGTACATTTT	TCATAGAGTT	60
TGGGAATGAA	ATAGTAAAAG	GTATATAGAA	AACTAAGAAA	AGGGAAAATT	CTGGGGGGCT	120
GGGATGAGGA	AGTGATTAGC	ACCAGGAAAA	ACCAAAGTTT	ATACCAGAAA	GGAACCTAA	180
TATTAGGCTG	CCATATTAAAG	CCATGTGGCT	GGGCTACATT	GTGTTAAGTC	ACTGATGAAT	240
GATCTAAACA	AGAGTCTGGA	TATAACCAAA	TCAGGAAGGC	TTGAAGAATG	TGTGTGTTAT	300
TGGGGGGAAC	GGTGTCTACA	GTAGGAGGTA	GATGTTTATG	TAAAACTAGA	GAAAAGGAAC	360
TAATATAAAG	TGTTAGTTGG	AATATATTAA	TAATTGTCAG	TGAAAACCTCG	AG	412

## (2) INFORMATION FOR SEQ ID NO:833:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 151 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:

GAATTCGGCC	AAAGAGGCCT	ACTGTGGGTT	TATATTGATG	TGTAACAAGT	TGATTTGAA	60
CACTGGACTC	TCATTCTGTT	ATTCTGGTTT	TGTTTTTTTT	GTTTTGTTTT	TTTTCTTTTG	120
TAAAGGCAAT	GAGCTAGTCC	CAGATCTCGA	G			151

## (2) INFORMATION FOR SEQ ID NO:834:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 233 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:

GAATTCAGCC	TTCATGGCCT	ACTCTCGTTG	AAGATGTGAA	TATCTGTCTG	CAGGCATGCA	60
GCAGTCTACA	CGCTCTGTCC	TCTTCCTGTC	CAGATGATCT	TTTACAGAGA	TGTGTTGATG	120
TTTGCCGTGT	TCAACTAGTG	CACCGTGGA	CTCGTATTCG	ACAAGCATT	GGAAAACGT	180

TGAAATCAAT TCCTTTAGAT GTTGTGCGGA TTGAATTCTA GACCCGCCTC GAG

233

(2) INFORMATION FOR SEQ ID NO:835:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 228 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC TTCATGGCCT AGAACTGGGA GGTAGAAACA AAAATGACTG AACATCTTTT 60  
TATCCCCCAA TCGTTACAAA GCCTAAATAA CTCTAAACGG GATGGGAGGG CAAATTTTAG 120  
GTCAGTTGAC ATCCTGGAGA AGATATCCTA GGTCTGTCTT CATTCCTAG ACCGCATAAC 180  
ACTCCAACCG TGTAGGCCAT GAAGATTGAA TTCTAGACCT GCCTCGAG 228

(2) INFORMATION FOR SEQ ID NO:836:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 224 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCT TCATGGCCTA GGCTGGTGAT CCATGATGCA AATAATAATA ATAATGATGA 60  
TTTTTTTAA TGTACAGCTC TCACACAAAT TTCATTTTGT GAACACACTG GTAAGTACAC 120  
GATGCTGGGG CTTCCAAAAT GTGGCGTATC CCACTGATGG CTCCAACTTG CGAGTGGGCT 180  
CAGTTATGAA AAATCGGGA GAGGACGGGT TGTCGCTGCT CGAG 224

(2) INFORMATION FOR SEQ ID NO:837:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 267 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC TTCATGGCCT AGGAGCTGTT GCACTTTGGG CCTTGGCAGG ACAAACACTA 60  
AAACAACAAA AATATATGGC AGAACAAAT GGATACAGCT TTATAATAAA TATGCTTTTG 120  
TCACCATCAG CTAAATGCA GTATGTTGGT AAGTTATTTT CTTATTTTA TTTTATTTT 180  
TTAGAGACAG GATCTTGCTC TGTTGCCAG CCTGGTGTGC AGTGGCACAA TTATAGCTCA 240  
CTGCAGCCTC AAACCCCTGG GCTCGAG 267

(2) INFORMATION FOR SEQ ID NO:838:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 514 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

```
GAATTCGGCC TTCATGGCCT AATCAAATC AACTACGCC CTGATCGGCG CACTGCGAGC      60
AGTAGCCCAA ACAATCTCAT ATGAAGTCAC CCTAGCCATC ATTCTACTAT CAACATTACT      120
AATAAGTGGC TCCTTTAACC TCTCCACCCT TATCACAACA CAAGAACACC TCTGATTACT      180
CCTGCCATCA TGACCCTTGG CCATAATATG ATTTATCTCC AACTAGCAG AGACCAACCG      240
AACCCCTTC GACCTTGCCG AAGGGGAGTC AGAACTAGTC TCAGGCTTCA ACATCGAATA      300
CGCCGAGGC CCCTTCGCCC TATTCTTCAT AGCCGAATAC ACAAACATTA TTATAATAAA      360
CACCTCACC ACTACAATCT TCCTAGGAAC AACATATGAC GCACTCTCCC CTGAACTCTA      420
CACAACATAT TTTGTCACCA AGACCCTACT TCTAACCTCC CTGTTCTTAT GAATTCGAAC      480
AGCATACCCC CGATTCCGCT ACGACCATCT CGAG                                514
```

(2) INFORMATION FOR SEQ ID NO:839:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 291 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

```
GAATTCGGCC TTCATGGCCT ACTACATAGA CGTGGATTTT AGGGGGACAA AATTCAACCA      60
CTACCGTCTC TTGCTTGAA ATCACACACA ATTTCAGAG GCCTAGAGAT GCCACTTTGT      120
CCGCAGATCT CTTCTGGCC CCGCCTCTGT CTGGGCAGCC TGGGTCTGAT TGTCTTCTG      180
TCTGCCACCC TCACAGTCTC CAGCCGTGGC CTGGTTCTCTG TCCTGGGGGC TGACCAGCCT      240
TCTGGGGCCT GGGACCTGGG GCATCGCTGC TGCCTGCCGG CTGACCTCGA G                291
```

(2) INFORMATION FOR SEQ ID NO:840:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 221 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

```
GAATTCGGCC TTCATAGCCT ACCTAAATTA ATAATAATGT ATAGTTCAGA ATTGCTAAGA      60
GTACTTTTTT TTTTTTTTTT TTGAGACAGG TTCTCGCTCT GCCCTCCAGC CTGGTGACAG      120
AGCAAGATTC CATCTCAAAA AAGAAAAAAA ACACACAGCT AATAGAATTG CCATTGTTTT      180
TCATAATAGA ATCTAGCTGC TTA CTCAAC CTCACCTCGA G                221
```

(2) INFORMATION FOR SEQ ID NO:841:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 445 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

```

GAATTCGGCC TTCATGGCCT AGTAAAGTTT CTCTCACCCC ACTTTAATT CATGTGCCAC      60
ATTTTTTCCT TTCTGAAACT ATATTGCTTC CCACATTCGG ATTTTAGAAT TTTTCTTTT      120
AAAGAGATTG TATTTTAAAT TATATTGGC CTACTTCCCC ATTGTCAATG CTTGTACCGT      180
GTGAGAAGTC CCTAGGATGA TAGTCATGGT TTTTCCCAT CTTATTAGCT TATATTCTC      240
CTTGCCCAACC CCCCACCCCT GGCAGCTTCC CACCCTCTCT AATGCTTCTG GAAGCTACTA      300
AGAAGTTTAA GTGGCCTATG TGAAAATATG TCAGTGTCCT ATTTAGCAT ATATATGTAA      360
CATTTACAAT TTATACCCCT GCCTACATCC GAGAGGGTTG TGAGGTGGCT TATGATGATA      420
AAGAAAAAAA CCCACATATC TCGAG                                           445

```

(2) INFORMATION FOR SEQ ID NO:842:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

```

GAATTCGGCC TTCATGGCCT AAATTTATAA GGTACTCTTT AACAATTTAT ATCAGAGTTA      60
GTTGCTATCT TTAGACCAT TGTCTGATG GCCTCCACTT CTAGCTATAC ATTGCCTCTT      120
TGAAATGAGC CATTGGGAG GCAAATATAT CAATTAGAAT GCCTTTAAGA ATAAAAAAT      180
TAAAAAGCAA AGAAAAACAG AATGCCTTTA GAAAAAATT TAATAAAACC AACTCAAAAT      240
TGTGCAACA AGGAAATTTT AGTGTTCCTC ATAATAAAC CTCGAG                       286

```

(2) INFORMATION FOR SEQ ID NO:843:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

```

GGTTCCTAAG TAATTATATT CCAAGGAACA TAGGAGGGGC AAAAATAATT CTAAAGACAT      60
AAAGAAAGAA ACAGGATATT TTCTAAATAT TTTATCTTG AGACAGAACT TGGTTTTTTT      120
TTTGGCTTTA GCTTGAAAA TCTCGTGCA TAGATAAATC TTTCTCTAT CTTGAAATTG      180
GTCTTATCAA GGAACCTACC GCATTGAGAT ATGAAGCTCT GGGCTCTCT GGTAGCCTTG      240
CACACCCTTC ATTATCACC TGGTCCCCCA GATAAGACAG CCCTGACCTC AGAATACACC      300
TTGGATTTAA CATTCTATGG GACATTTATT TCTAGTCTAC CCCCATCCCT CGAG           354

```

(2) INFORMATION FOR SEQ ID NO:844:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:844:

```

GAATTCGGCC TTCATGGCCT AGTGGAAAA ATAAGATATT TCTTAAAGTA ACAAGGCCTG      60
AATAAATGTG TGGCAGTCTC AAATTCTATT CTATATCTCA GGTGTAATCC TTACATACTA      120
AAGATAGTGG GATCATCCTT GTAGATTCT AGCAGACTGG TACATTAAAA AGTGACAATG      180
TTTGGGGTAT GACAGTATAA AAAAAGGTTT AATTGAGAA AAAGGATTAA GTTAAATAGT      240
AAACTAGTGT TGAGATTTTA ATCACAAGTA CAAAAGAGTG AAGAGCAGCC TTCATGACAA      300
GGAATCATGT GACCAGCCCC CACCCCAAC TCGAG                                     335

```

## (2) INFORMATION FOR SEQ ID NO:845:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:845:

```

GAATTCGGCC TTCATGGCCT AAGAAAGGGT GGGAACAACTAAC ATTGATCACA TTTATGGAAA      60
CCTGCTTCT CGTGCTGGGC ACTTTATATA TGTTATCTCC CTTGTGGTG CAATCTCATG      120
ACATGCAGTC ATTGTCCATG TTTGTGGTG AGGAAACAGG CTTAGGGGTG GGAGGCTCGC      180
CTGAGGCCCC ACAGTGTGG CTGGAGACAG CGTGGGGCCT GAGTCTTGCT CACAGCCTGA      240
ACGCTGCACT CTGCTGCTCC GCGTCCCAGG AAGGAAAAGC TGCTGCAGTG GGTGTTGTTT      300
GCCAAATACA TGGAGGCTTT TTTCTGGGTG AGTGCCAGC AGTTGATTGT TCTGTATGCC      360
TCGAG                                     365

```

## (2) INFORMATION FOR SEQ ID NO:846:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:846:

```

GAATTCGGCC TTCATGGCCT AATCCATGTT GTACAACTGA AATATAAATA ATTTGTCAA      60
TTATACCTAA ATAAACTGG AAAAAATT CTGGAAGTTT ATATCTAAAA ATGTTAATAG      120
TGGGTACCTC TAGGAAGTGG GCCTGGAAGC CATTCTTACT TTTCACTCTC TCCATTCTG      180
TACTGTTTTT TGTTTTACTT TCGTGCCTG CAGGTCTAGA ATTCAATCG                     229

```

## (2) INFORMATION FOR SEQ ID NO:847:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 575 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:847:

```

GAATTCGGCC TTCATGGCCT AGGGGAGAGT ATCATCTCAC CAAAGGTGAA AATGGCATT 60
CGGACATCAG GACATCTCTT ACTGGGAGTA GTTCGAATCT ATCACAGGAA AGCCAAATAC 120
CTTCTTGCGC ACTGTAATGA AGCATTTCATT AAGATAAAGA TGGCTTTTCG GCCAGGTGTG 180
GTTGACCTGC CTGAGGAAAA TCGGGAAGCA GCTTATAATG CCATTACTTT ACCTGAAGAA 240
TTTCATGACT TTGATCAGCC ACTGCCTGAC TTAGATGACA TCGATGTGGC CCAGCAGTTC 300
AGCTTGAATC AGAGTAGAGT GGAAGAGATA ACCATGAGAG AAGAAGTTGG GAACATCACT 360
ATTTTACAAG AAAATGATTT TGGTGATTTT GGAATGGATG ATCGTGAGAT AATGAGAGAA 420
GGCAGTGCTT TTGAGGATGA CGACATGTTA GTAAGCACTA CTACTTCTAA CCTCTATTA 480
GAGTCTGAAC AGAGCACCAG CAATCTGAAT GAGAAAATTA ACCATTTAGA ATATGAAGAT 540
CAATATAAGG ATGATAATTT TGGAGAAGGC TCGAG 575

```

## (2) INFORMATION FOR SEQ ID NO:848:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 539 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:848:

```

ATCTCGGAGT GCAAAAATAA AATCCACTCA AGAGTCACAA GGCCCGCTGT GCATAATCGG 60
TTTCACITTT ACCTTTTTTT TTTTTTTTTT TTTTNGAGAC AGGTCTCACT CTGTCACCCA 120
GGCTGGAGTG CAGTGGCACA TTCTCGGCTC ACTGCAATTC CGCTTCCTGG GTTCAAGTGA 180
TTCTCCCACT TCAGCCTCCC AAGTAGGTGG GATTACAGGT ACTCACCACC AGGTCCAGCT 240
AACTTTTGTA TTTTATAGTAG AGACAGGGTT TCACCATGTT GGCCAGGCTG GTCTCGAAT 300
CCTGACCTCA GATGGTCTGC CCACCTCCGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG 360
CCACTGCGCC CGGCCACTTT CACACTTTTT ACAGTGAGTG GTGAATTAGC AACAGTAACA 420
CTGATTATCC AACATATATT TTGGAATATC TACTATGTGC AAGGAATTTT TCTTAAACTC 480
TAAGGTTATG AATCACTGGG CAAATCCATA TAATTAGAGA ATTTTAAGTG CGTCTCGAG 539

```

## (2) INFORMATION FOR SEQ ID NO:849:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:849:

```

GAATTCGGCC TTCATGGCCT AGGGGGAAGA CGGGAAGCAT ATAAATAAAC AAATAATTT 60
TAAAAGCAAC TTTTAAAG CAAGTGGGAG GGGCATGCTA GTTTAAGAA CTGTAATAAA 120
AAACACCACC CATTGTTTTT TTTTGTTTTT TTCITTTTGG AGACAGAGTC TTGCTCTGTC 180
ACCCAGTCTC GAG 193

```

## (2) INFORMATION FOR SEQ ID NO:850:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:

GAATTCTAGA	CCTGCCATGG	CTGTGGGCGC	GCTCCCCTCT	GACTGCGTCC	CCTTCTCTCC	60
CTGCATCCCC	TTCTCTCCCT	GCATCCTTCT	GTCTTCCTGT	GTGCCCTTAT	CTGCCCTGGC	120
CTTCCTGTCT	TCCTGTATCT	TCTCACCTGC	CTGTGTTGTT	TCTAGCTGTG	TCTCTGCCCT	180
TCCCTGTGTC	ATCATGCCCT	TCTGTGCACT	CCTGTCTGAC	TGTGGCCTCT	TGCTTCTCTG	240
TGTTCCAGCA	TCCACCTGCG	TCTTCCTATC	TGCACGTCCC	CTCGAG		286

## (2) INFORMATION FOR SEQ ID NO:851:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:851:

GAATTCGGCC	TTCATGGCCT	AATCTCGTTC	TCCATGTCTT	CCGTGTGCTG	GATACACTGG	60
CAGAGCTCAC	AGATGAGAAA	CGCCCCCAGG	GTGGCCTCCT	CGTGGTTGTC	CTGGATGTCC	120
ACATTGACCA	CGTGACACAG	CTGGCAGGTC	TCCTGTTCTC	TGGAATTCAG	ATCTTCCACC	180
ACCTGGTCAT	ACACTCTCTC	TTCGCAAGTG	AGGATCAGAT	CAAACAGGTC	TTTGCAGTTC	240
TGGAATCTTT	CTGGCCGGGG	CTTGATTCTC	TTATTTCTGT	CCAGCATATG	TAAATCCCA	300
TTCTGTGTAT	AGAGTTCTTT	GTCTTTCCTA	AGAAGATCAT	TGTACATCTG	GTCATATGTG	360
GTTTGTAAAT	CATAACATT	GGGCTTGTCT	GGAGCTGGTC	CTGGAAGCTT	CACGTGAGTC	420
CCTGTTCCAA	AGGATCGGAC	GCTGAATCCC	CGTTTGCTGA	GGATGTTGTG	CGCCTCCATG	480
CTCCGGTTCT	GGTTGCTCGA	G				501

## (2) INFORMATION FOR SEQ ID NO:852:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

GAATTCGGCC	TTCATGGCCT	AAGTTGTGCT	GACACCAAAC	ACATCCAGTT	TATAATCAGT	60
ATATTGGAAA	GCTGGTATTG	ATGTAGAACC	AGTGCATAAC	TTTTTATGGG	GTTTTGTTAT	120
TGGTTTTTTT	TTGTAAAGTG	TGAATAAAAG	GTATGTTTAC	TCATTTTTC	TGAACACTGT	180
GTTGGTAATG	TGCATCATGA	CAATTTCAG	TGAAGGTGAG	CTGGAGCTGG	TTGGACTAAT	240
GAGACTGAGG	AAGCAGCTTT	TCCTACGATC	TGCATTATGT	AATCACAGGT	CCAGAGAGCT	300
TTATGGAAGC	GGGAGAGGAG	GAGCACTTAC	TCATGTTGTA	TTTGTTAATG	GAGGATGTCA	360
TCTTTTCATA	GATGCTGGAA	CTAGAGTGCA	CTTGTTAGAT	GCTAAAGGTT	TGAGCTTTAC	420
ACAAAATGTC	TTCATCTGTA	TTTGTATTG	TCTACAATAT	ATTTGAATTT	GGGGCAAGTC	480
TCGAG						485

## (2) INFORMATION FOR SEQ ID NO:853:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 746 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

GAATTCGGCC	TTCATGGCCT	AGGTGGCTGC	ACCATCGGGA	TGTCCTGATC	CAACATCGAG	60
GTCTGTAACC	CTATTGTTGA	TATGGACTCT	AGAATAGGAT	TGCGCTGTTA	TCCCTAGGGT	120
AACTTGTTCC	GTTGGTCAAG	TTATTGGATC	AATTGAGTAT	AGTAGTTCGC	TTTGACTGGT	180
GAAGTCTTAG	CATGTAAGTC	TCGGAGGTTG	GGTTCTGCTC	CGAGGTCCGC	CCAACCGAAA	240
TTTTTAATGC	AGGTTTGTTA	GTTTAGGACC	TGTGGGTTTG	TTAGGTACTG	TTTGCAATTAA	300
TAAATTAAG	CTCCATAGGG	TCTTCTCGTC	TTGCTGTGTT	ATGCCCCGCC	TCTTCACGGG	360
CAGGTCTAGA	ATTCAAAAGC	AAGCATCTCC	GCATCGCATC	CTCTTCCATT	AACCAGTGGC	420
CGGTTGCCAC	TCTCCTCCCC	TCCCTCAGAG	ACACCAAAC	GCCAAAAACA	AGACGCGTAG	480
CAGCACACAC	TTCACAAAGC	CAAGCCTAGG	CCGCCCTGAG	CATCCTGGTT	CAAACGGGTG	540
CCTGGTCAGA	AGGCCAGCCG	CCCCTTCCC	GTTTCTCTTT	TAAGTGAAGA	GAAGCTGATC	600
CAGTTTCCGG	AAACAAAATC	CTTTTCTCAT	TTGGGGAGGG	GGGTAATAGT	GACATGCAGG	660
CACCTCTTTT	AAACAGGCAA	AACAGGAAGG	GGGAAAAGGT	GGGATTTCATG	TCGAGGCTAG	720
AGGCATTG	AACAACAAAT	CTCGAG				746

(2) INFORMATION FOR SEQ ID NO:854:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

GCAATTCTAG	TGGTAAGGTG	TTAATAATTT	CACTCTTTTT	ATGTAGACGA	GAGGTTGAGC	60
CTTGAAGGAT	GAGAGGTGTT	TACCGTCTTA	GGATGGGGTA	TAGTAGATAG	AACCATATGA	120
ACCGAAGAGC	TGAGGAATGT	GAGCATGTAA	CACCTGACGT	GTACAGTAGT	AGGTATGAAG	180
TCATATGGGA	GCAGTATTTT	TTTTTCTATT	TTGTTCACTG	ATTTTTCTCC	ACTGGTACTT	240
AATAGGCACT	CAATAAATAT	TTTGCTAAAT	AAATGAACTG	GTGATGTTGA	AATCCAGTTA	300
GTTTACATTT	TGGTTGGTTT	TGGTATTGTC	TTTTAAAGGT	AGCAAAGACC	AAGTAATTAA	360
ATTTGTTAGA	TGAATATGAG	ATAAAATGGG	CTCTCGAG			398

(2) INFORMATION FOR SEQ ID NO:855:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

GCCCTTTGCT	CCATTTCCAA	GGAAAGAAAT	TAAACCAAGA	TGGTGGCTGG	GATTACAGGC	60
ATGAGCCACT	GTGACCAGCT	CGCAAGATAG	AATTTTGAAA	AATGTATCTT	GAGCCTCTCT	120
TTCTCTTTCT	AGTTCTTTAA	GATTCAAGAA	ATCAAATAAG	GTGATAGCCC	TGAAGCCCTT	180
ACAGGCAGAG	GTGCCCTCGA	CTGTGGGTGA	GGAGGTATTG	ATCCCCAACC	AGTGAGATAT	240
TCTGAGTGGG	GAGAAGTGTT	TTCTATCGAT	GACACAGGGT	GGGCCCTATG	GGAGCAGCAG	300
CATGGCCCCA	CCTTCGACCC	AATGCTGAGA	GGAAAGGGGC	CTCAGGAAGG	GGAGACTGAA	360
GCCAGCACAC	TCGAG					375

(2) INFORMATION FOR SEQ ID NO:856:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

```

GAATTCGGCC TCATGGCCTA TGAATTTATT TTATTTTACT TATTTATTTA TTTGGTAGAG      60
ACAGGGTCTC ACTATATTAC CCAGGCTGGT CTCTTACCCC TGGCCTCAAG TGATCCTCCT      120
GTCTCTGCAT CCCAGGCCTC CCAAAGTGGT GGGATTACAG GCATGAGCCA CGATGCCTGT      180
CAGCCTTATT GCACTTCACA CACACACACA CACACACACA CACACACACA CACACACACA      240
CACACACTGA TTCAGGCCTT GAGACTCAAG CCCAAGAGCT CCCTTGGCCC TGTTCCTCCAG      300
TCTCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:857:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 564 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

```

GGAGAAATAT GGCTTCAGTT TTTCATTACT TCCTGTAGT TCTGGTCTTT CTGGATACAC      60
ACGCAGCTCA GCCTTTCTGT CTGCCAGGAT GCACTTGCTC AGAGGGAGTT TTNGCAGGAC      120
TCTGCAGTGC ACATCTGTCT CCTTGGGAAA GATCCCTGGG AACCTTTCTG AAGAGTTCAA      180
GCAAGTGAGA ATTNAAAAAT TCNACCNITA TTGAGATGC CCCAAGGNTC TTTCATCAAC      240
ATGAGCACCT TGAATACCT CTGGCTCAAT TTTAACAATA TCAGTGTGAT CCACCTAGGA      300
GCCCTGGAAC ACCTGCCAGA ACTGAGGGAG CTGAGACTGG AGGGGAACAA GCTCTGCTCA      360
GTACCATGGA CAGCGTTCGG TGCCACCCCT CTCCTGAGGG TCTTGATCT CAAACGCAAC      420
AAGATTGATG CACTCCCTGA GCTGGCTCTT CAATTCTTGG TCAGCCTGAC CTACCTTGAC      480
CTATCCTCCA ATAGGCTTAC AGTTGTATCC AAGAGTGTCT TCCTGAACTG GCCAGCCTAC      540
CAGAAATGCC GGCAGCCACT CGAG

```

## (2) INFORMATION FOR SEQ ID NO:858:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 680 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

```

GAATTCGGCC TTCATGGCCT AGGTGGTTTG GAGTCATAAC ACAGAAGTGG TGAGAAGTGA      60
TCAGAGGCGG ATTTCTGGT GCATTGAATA TGGGATGTGA GATAAGCAGA GGAGTCAGGA      120
TGGCTTCCCG GACTATGGTC CAAACAGTGG AAAGGATGCA GTGGCTGTAA CCTGAAGCAG      180
GAAGTCTGCA GGTGGGACAG AAATGTTTGT TAAGGGAAGT GTTTTCAGAG TTTGGTTTTG      240
GATATGTTAA GTTTGCCAGT GTAAATGGAC ATACTGTGTA GACATTTGGA AATATGAATC      300
TTGGAAATAT GAGGTTCTGG GTATGAGCAG AGTCCAAGGA TGAGCCTAGG GATTGGAGAG      360
CTGAAACCAG AAAAAGAAGC TAGAAGGAGA GGCCAGTTAA GACAGTGAAA AGAAGCGAGG      420

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CATGAGGATC	ACTTGAGGCC	AGTAGCTCAA	CAGCCTGGGC	ATCATAGCGA	GACCCTGTCT	480
CAGCAACAAC	AACAAAACGG	ACAGTGAAGA	GAGTATTTGA	AGGAGAGGGG	AACAGGCAGC	540
GTATTGCTTA	TTGCTGAGGG	GCAAAGTGAA	GACCAAGGAT	AGACTGCTGG	GCTTGACAGC	600
ATGGAGGGTG	CTGGGGGCCT	AGGCAAGTGC	AATATTCATG	TGGTGTTCATT	GGGCCAAAGG	660
TGTCATTGGA	GGTACTCGAG					680

## (2) INFORMATION FOR SEQ ID NO:859:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

GCAAAAGCAA	GTACAGTGGT	CATGCAGGGC	CTCAGTAAGC	AAGAAATATT	TACCCGCCCCG	60
GGGATGGACA	GGTAGGAAAG	GGTCTGTTAA	GGAAGGGCAG	CAAATATTTG	GATAACAGTA	120
CTATGTGTTT	GTATGGAGCG	ATATTTAAGA	AGGTTTCCTA	GGTTTTTTGA	GGGGTATTGA	180
AGCTGAGAGG	TTGGGGGCAG	GCAGGAAGCT	CTGCAGCCTG	TAGCCTATGG	TATCAAGCTT	240
CATGAGAACG	AGAATTAAC	AGTTACATCT	TTATTACCAT	TTTGGGCATC	TCTGCAGACA	300
GTGGATCTAA	TGCATGATAG	CTGATTAATA	AATGTTTGTT	GAATTAATGA	ACAAAATAGC	360
AAGAAACACG	TGTTCTCGAG					380

## (2) INFORMATION FOR SEQ ID NO:860:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

GATTTTGAAT	ACACNACNAA	GTTAGAAGAA	TCTTATTACT	TAGATTCCAT	TAATATCTTA	60
CTATGTTTTA	TTACAAATCT	ATGTATCTCT	CTAGCCATCC	TTTAATCCAT	GTTATGTTTT	120
TGATGCTTTG	CAAAGTAACT	TGCGAATATT	GGTTCATTTT	CCCTGAAATA	CTTAAGCATG	180
CAAATCATGA	ACCAAGTTCC	AATATTGTG	TGAAATGCAC	AAATAAGTGT	AAATTTGCAG	240
AGTTTGGGCA	TATGCGTATA	CCTATCAAGA	CACGGAGCAT	TAATATCACC	CTGGAAGTCC	300
TCGAG						305

## (2) INFORMATION FOR SEQ ID NO:861:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

GAATTCGGCC	TTCATGGCCT	AGTGAACAAG	TAAAGACTGA	ATGGGGCTGA	GATGAAGGCA	60
ATGTTTCCAA	GGAAAGGAAA	TGTTATGAGC	AAGAGTGTGA	GGCAAGAGAA	GCTGGAACCA	120

CATTGAGAGA GTATCCTGTA GATTGCTCCA CCTAGAATCT CAGGTGGGTG GAGCAGTGGT	180
GGGAGAAGAC TGGAAAGTA AGTTGAAGGT AAGGAATGTG TGGTGGGCCT CAGATCCCAG	240
GCTCATTCTT CAAATCACTT CTTACTTCCC TCACTTATCT TTGTTTAAAT AAGGTTAGCA	300
CACTCACTCG AG	312

## (2) INFORMATION FOR SEQ ID NO:862:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 282 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

GAATTCGGCC TTCATGGCCT AGTGGCGGGC ATCTTGTGTT TATCTTCTGG AGTGAAATAT	60
GCTTTTCCAG TTGTCTTCGA AGTTTCACCT CTGCTCCATA TTTCCAGTG GTCCCCGTTGT	120
CAGCCAGAAAT GAAGTGGGAA TGCATGCTGT TGAGAACAGT GAGCTTGCTC ATGGGATTGG	180
ACATGGTCTG GTATGGCCGG ACAACATCTC TTCCAATGAG GTCCCTCTGG TTTTCCACAA	240
TTCCCAGGG GGCAATACCT ATGGTGCTA TCTTCTCTCG AG	282

## (2) INFORMATION FOR SEQ ID NO:863:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 388 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

GAAATTCGGC CAAAGAGGCC TAGGGTGCCT GTGGTTCCGG CTACTCGGGA GTCTGAGGCA	60
GCACAATTGC TTGAACCTGG GAGGTGGAGG TTGCGGTGAG CCAANATGGT GCCACTGCAC	120
TCCAGCCTGG GTGACAGAGT GAGACTCTGT CTCAAAAAAA AAAAGACCTT CCTTAATAAG	180
TGGAGTTGGA TAGACATTTT GCTTTGGAAA ACAGAAGCTA TTTACTGTCA ATATTAGGTC	240
TACTTCATTC ATTTACAGA ATAGGCAAAG ATGTCTGGGG CTTTGCTCAC TAGGGAATTC	300
TGGCCATGGC CTTTGTCTT TCTTCTAACC AGGCCTTTTG CTTCTCTTCT CCCTTTTTGC	360
CAGATGTAGA ACCACCAGGC GACTCGAG	388

## (2) INFORMATION FOR SEQ ID NO:864:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 115 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GAATTCGGCC AAAGAGGCCT AAAGTTTCTA AAGATTGTAA ATTTAAAAGG AAATGCCAAA	60
TGAATTATTT GTAAAATTGT TTAATAAAT TAATAATAA TGAGTGCGCC TCGAG	115

## (2) INFORMATION FOR SEQ ID NO:865:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 137 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

GAATTCGGCC AAAGAGGCCT AGATTGAGAA TGCTGACTCG CCTAAAAGCT TTATGCTTAT	60
CATGCTCTGTG GTGCTTGGAG CCTGTGGCCC AGGTGATTG GGGTTTGGG ACGCCTCATG	120
GGCAGAGACG GCTCGAG	137

(2) INFORMATION FOR SEQ ID NO:866:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 622 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

GAATTCGGCC AAAGTAGGCC TAAATCCGT CCGNAACTA TGAACAATGG CAGCTACAGC	60
GTANTCAGCT TCAAGGAGCA ATGCAGCAGT TTAACCAGAG ATTCATTTAT GGGGAATCAA	120
GATTTATTG CTACATCACA AAGTAAAGAA TTTGATCCTC TTGGTCCATT GCCACCTGGA	180
TGGTCAATT AAATGAAAAG CCCTTACCTG AAGGTTGGNT TTNAGATTG ACAGTGGATG	240
GAATTCATA TTTGTGGAC CACAATAGAA GAACTACCAC CTATATNGAT CCCCACACAG	300
GAAAATCTGC CCTGTAAGTT TTCTAAACAT TGATAGTAA GAGTAAAATA CTAGTCCTTC	360
AGATTTTGAT ATAAAGATTG GTATTAGCAA GGAGTGAAG TCTTAGTATT TCTTGAGTTA	420
GCTTGACAAT AGGTTTCTGT TCATTAAGTA TTTGCAATT CCATCTCCCT CTTGGATATT	480
TTATCCTAGA GATTTTCATA TTTGTTACCA TTTGTTTACA CAGCACTAAA TGAACTATT	540
TAGAATTAT AGGTATTGTA CTGCTTACCA ATTAGTCTCT GATTTCTGAT TTTGAGCTTC	600
TTTCATTCCC TNAACACTCG AG	622

(2) INFORMATION FOR SEQ ID NO:867:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 453 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

GAATTCGGCC AAAGAGGCCT GGCAGGCGTG TTTATTGACT CTTCCAATTA ATTTTAAAGA	60
ACCTGAAGAA ATGGACAAAG ACAGAGAAAA GNCNACCAGA TGTGATTCCG CCCTTCCAGN	120
AAGCAAAGAG CTTATTTTCAT CCCATATGAT CGATGCCAGT CATGGGGANG AGTGCTGTG	180
TGGAATTAAT GGATTTTCAA CATCCATCAC AGAGGACACA CATGTATATT AGCNAGTCTN	240
AAACCTCTTA AATAAACTGC ATTGCTTTTC ATTTTCACTT CCAGTTATAA AACCAGTGGA	300
TGATGNAAAG GCCATGTGAC NATACAGCAT GTACTCTCAG GNATGTTTGT GTGACAGGGA	360
TATTATATCT GAAGGGACAG GGCAACTGGG AGGGTGAAGT GCTCATAACT CTCAATTGTC	420
CAGGTAATGA AGCATTGGGA AAGCGACCTC GAG	453



## (2) INFORMATION FOR SEQ ID NO:868:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 642 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

```
GAATTCGGCC AAAGAGGCCT ACGAGCACCT CCGCCGCGCG CTCCTCCGC CGCCGCGGAC      60
TCCGGCAGCT TTATCGCCAG AGTCCCTGAN CTCTCGCTTT CTTTAAATC CCCTGCATCG      120
GATCACC GCGC GTGCCCCACC ATGTCAGACG CAGCCGTAGA CACCAGCTCC GAANTCACCA      180
CCAAGGACTT AAAGGAGAAG AAGGAAGTNG TGAAGAGGC AGAAATGGA AGAGACGCCC      240
TGCTANCGGG AATGCTAATG AGGAAANTGG GGAGCAGGAG GCTGACAATG AGGTAGACGA      300
AGAAGAGGAA GAAGGTGGGG AGGAAGAGGA GGAGGAAGAA GAAGGTGATG GTGAGGAAGA      360
GGATGGAGAT GAAGATGAGG AGCTGAGTCA GCTACGGGCA AGCGGNCAGC TGAAGATGAT      420
GAGGATGATG ATGTCGATAC CANGAGCAGA AGACCGACGA GGATGACTAG ACNGCCAAAA      480
AGGGAAAGTT AACTNAAAAA AAAAAGGCCG CCGTGACCTA TTCACCTCCA CTTCCCGTCT      540
CAGAATCTAA ACGTGGTCAC CTTCGAGTAG AGAGGCCCGC CCGCCACCGG TGGGCAGTGC      600
CAGCCGCGA TGACACGCGC TCTCCACCAC CCAACTCTCG AG                                642
```

## (2) INFORMATION FOR SEQ ID NO:869:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 347 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

```
GAATTCGGCC AAAGAGGCCT ACTCCTCCTC TTGGTCTCA CCACAACCCA CCCTATCAAA      60
ATACTGCACC TCCACACAGC CGCTTCTCTT TCATTGGGAA AGGCCAGCAC CTGGCCTCTT      120
TCTCTTTGAT GCTTTTGTA AATTGAGTTT GGGGAGAGCG TTCCTGGTCT TTGTCTTAA      180
CCAGTGAAGA CAAACAGTGT ACTTGGTGTA AGCAGACACT GAAGGTTTGT CTAAGCTGTC      240
AGCCTGCTCT CCCAACACCT GTGCTGTGC TGAGACCTGA TGGTCCAGGA AAGGCGAGCT      300
GCCACACTGT GGATCCCCCG CCACCCACAC ACGCACCCCC CCTCGAG                                347
```

## (2) INFORMATION FOR SEQ ID NO:870:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 353 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

```
GAATTCGGCC AAAGAGGCCT ACAGAGAAGC GGGGCGAACT GAGGCGAGTG AAGTGGACTC      60
TGAGGGCTAC CGTACCGCC ACTGCTGCGG CAGGGGCGTG GAGGGCAGAG GGCCGCGGAG      120
GCCGCAAGTT CAAACATGGC TCAGAGCAGA GACGGCGGAA ACCCGTTTCG CGAGCCCGAG      180
GAGCTTGACA ACCCCTTTCA GGACCCAGCT GTGATCCAGC ACCGACCCAG CCGGCAGTAT      240
```

GCCACGCTTG ACGTCTACAA CCCTTTTGAG ACCCGGGAGC CACCACCAGC CTATGAGCCT 300  
CCAGCCCCCTG CCCCATTGCC TCCACCCTCA GCTCCCTCCT TGCAGCCCTC GAG 353

## (2) INFORMATION FOR SEQ ID NO:871:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 426 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCCTAG TTGTTTTC ACTGGAAAAT ATATAGAGAA AGATGAAGGG GCATTTTTC 60  
CTCTACTCAT CAATTTTGG TACCAAATTT CTAAAAAACC AGATGGTTTA AAGAAAATTT 120  
TTCCAAAAAT TATGTTAACA TTCTGCTCAG ACATGGCTGC TAAAAAATA GCATATACAC 180  
ATATAATACT GAACAGCTTC TGCAGTGCCT GTAAACTCTC AGCTCATTTT CTCTTCTTAA 240  
ANAAAATATA TATTATAACT GATCCCAGAA CTCAATCTCT ATTGTGCAGC AGTATCAAAG 300  
GTCTTAAAT TCTCAACAAT GAAGGAAAAA CAAAAACCCA TCCCCGGAC CGCTTGAGCA 360  
GGACTAGGA AGGAGGAGTC CGTGGATGCA AAGGTTGCT GCCCCGACGC CCTCAGANTC 420  
CTCGAG 426

## (2) INFORMATION FOR SEQ ID NO:872:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 430 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GAATTCGGCC AAAGAGGCCT AGGGAGGGCT GAGAGGGAGG GAGGGAGGAA GGAAGGAAAA 60  
AAGGAACAAA TGCCGCCTGA CCGTCTTTG TGGAACTACT ACACCTATGA TGAGTACCTC 120  
CATGGACCAT GCACCTGCCT TGAACAAGG AGGCACAGCA CACAGGGCCC TCAGCTAGAG 180  
TGACAGGAA AGGCGGGTGG ACATGGGGAA GGCTCAAACT CAAGCTTTGA AATCGGGGAA 240  
AGCCCCGAAA TCTGAACCAC TCTTGGGGCC ATCCTTCTCT CTCCACATT CACACCTTCG 300  
CCTGCGCTCC CATAATTGCA AATTAATTCA TCCACACATT CACACATTCT CTCCCTCCCA 360  
CTCTCAANAG GCAGCCCCAA GCGCGGGGC CTCACGAAGT CTGGGTGGAT GACCAAGCTC 420  
CTCCCTCGAG 430

## (2) INFORMATION FOR SEQ ID NO:873:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 606 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC AAAGAGGCCT ACGGGCATGG TGGTAGCTCA GGAGTTCAAG GCTACAGTGA 60  
ACTATGATTG TGCCACTGCA CCCAGCTTG GGTGACAGAC AGTGAGACCC TGTCTCTAAG 120

```

AAATAAATAA AAATAAAAAA TAAGAGGAGC TTTTGGAAATT CAGCTATTAG GAAGTTACTG      180
GTGCCCATGG AGGGAAGTGT TCCAGGCAAG TGGTGGTGTT AAAGGTNGAG AGAAGAGACA      240
TTAGCTCAGT GCTTCCCAAA TAGGATANCC AAGGCGCCAA GCTGCANACT GATCTCAGGT      300
GTGGCCCANT GCCTCCCCCT CAGCTGGAAC CCCAGACCAG ACTCCTGCAG TTTCAAGCAG      360
CCTCCTCCTT CTATCCCGGT GTACCTTCCA TATCTCAGTT CCACCACGGG GAACCTCAAA      420
CACTCGACAA CCCATTTCAA AAGCCTGGCT ATGGAAGAA GAGGAAAGGG AGGAGCCGCA      480
AGTTTGGGAG AAAGTGATT TGGGATGCTG GAGTGGGAGC CTGTTGTAG GAGCCATAGG      540
GCAGGCTTGA AGATGAATGG GAAAGAAGAT GAGNGGAAGA GGAGGTGAGA CTGAGAGCAT      600
CTCGAG                                         606

```

## (2) INFORMATION FOR SEQ ID NO:874:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 99 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

```

GAATTCGGCC TTCATGGCCT ACTGGGGGTG AACTATAAA GAAAAGCAAG AAGTGATTAT      60
CATAAAGAA AGGTAATGAT GTTTTTTCCC TTTCTCGAG                               99

```

## (2) INFORMATION FOR SEQ ID NO:875:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 73 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

```

GATGAACAGA TACGATTGTG GGATTTTAT CATCTGTGTA GCAGGTGGTG TATGCATCGG      60
GGTACTCCTC GAG                               73

```

## (2) INFORMATION FOR SEQ ID NO:876:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 471 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

```

GAATTCGGCC TTCATGGCCT ACCAGAAGAT GCCTGCCTTC AATAGATTGT TTCCCCTGGC      60
TTCTCTCGTG CTTATCTACT GGGTCAGTGT CTGCTTCCTT GTGTGTGTGG AAGTGCCCTC      120
GGAGACGGAG CCGTGCANGG CAACCCCATG AAGCTGCGCT GCATCTCCTG CATGAAGAGA      180
GAGGAGGTGG AGGCCACCAC GGTGGTGGAA TGGTTCTACA GGCCCGAGGG CGGTAAAGAT      240
TTCCTTATTT ACGAGTATCG GAATGGCCAC CAGGAGGTGG AGAGCCCTT TCAGGGGGCG      300
CTGCAGTGGG ATGGCAGCAA GGACCTGCAG GACGTGTCCA TCACTGTGCT CAACGTCACT      360
CTGAACGACT CTGGCCTCTA CACCTGCAAT GTGTCCCGGG AGTTTGAGTT TGAGGCGCAT      420

```

CGGCCCTTTG TGAAGACGAC GCGGCTGATC CCCCTAAGAG TCGGACTCGA G

471

(2) INFORMATION FOR SEQ ID NO:877:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 457 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

GAATTCGGCC TTCATGGCCT ACGGAAAAAT AGTTATATTC CAGTCTAAGC CAGAAATCCA	60
GTACGCACCA CATTGGAGC AGGAGCCTAC AAATTGAGA GAATCATCTC TAAGCAAAAT	120
GTCCTATCTG CAAATGAGAA ATTACAAGC GCACAGGAAT TTTCTTGAAG ATGGAGAAAG	180
TGATGGCTTT TTAAGATGCC TCTCTCTTAA CTCTGGGTGG ATTTAACTA CAACTCTTGT	240
CCTCTCGGTG ATGGTATTGC TTGGATTGG TTGTGCAACT GTTGCTACAG CTGTGGAGCA	300
GTATGTTCCC TCTGAGAAGC TGAGTATCTA TGGTGACTTG GAGTTTATGA ATGAACAAA	360
GCTAAACAGA TATCCAGCTT CTTCTCTTGT GGTTGTTAGA TCTAAACTG AAGATCATGA	420
AGAAGCAGGG CCTCTACCTA CAAAGTGAA TCTCGAG	457

(2) INFORMATION FOR SEQ ID NO:878:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 553 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:878:

GAATTCGGCC TTCANGCCT AATAACATCT CCCCAGACCC AGAAAAACAG AAAGCTCCAC	60
AGAAATTAAA TGTTGAAGAG AACTCTCAA AGGAAGTTAC AGAAGAAAAC TATCTCTTTC	120
CCAGTAAGTT CAGTGGAAG TGCCTAGAA CATGAATATG ACTNGGTGAA TTAGATGAAA	180
GTTTTTATGG ACCAGAAAAG GCCACAACAT ATTATCTCAT CCAGAGACCC AAAGCCAAAA	240
CTCAGCTGAC AGGAATGTTT CAAAGGACAC AAAGAGAGAT GTGGACTCAA AGTCACCGGG	300
GATGCCTTTA TTGAAGCAG AGGAAGGAGT TCTATCAGCA ACCCAGATAT TTCCTACCAC	360
TATTAAAGTC ATTGATCCAG AATTTCTGGA GGAGCCACCT GCACTTGTCAT TTTTATATAA	420
GGATCTGTAT GAAGAAGCAG TTGGAGAGAA AAAGAAGGAA GAGGAGACAG CTTCTGAAGG	480
TGACAGTGTG AATTCTGAGG CATCATTTCC CAGCAGAAAT TCTGACACTG ATGATGGAAC	540
AGGAATGCTC GAG	553

(2) INFORMATION FOR SEQ ID NO:879:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:879:

GAATTCGGCC TTCATGGCCT AGGTTCTTAG GCTCTGAGAT ACTTCCTGCT TCCCTCACAA	60
---	----

ACATGCTTAT GTTTGGTGTG CATGCACATT TGCCTATCAG CACATATAAA GAGACAGTGG 120  
 AAAAGTCAGA AGTGTTTTCA GGTTATTTTC CGATTGAATT CTAGACCTGC CTCGAG 176

(2) INFORMATION FOR SEQ ID NO:880:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 320 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:880:

GAATTCGGNC TTCATGGCCT ACTTCCTCTT CCTCCTCTTC CTCTTCCCCT TCCTGGTGCA 60  
 GGTACATGAC ATTCCGCACG TTCCGGACGG CCCGGGCAGT CGGAGACAGG ATCACTGTGT 120  
 CACAACTGTC ATCACTGTCC CCCTCACTGT CCAAAATGTA GTCCCGGGGA ACATGATTCC 180  
 ACAGCCCATG ATGTCCCTTT TGTAACAGCG TGGCCCAAAG GGTCCCCCAC ACCACCTTCC 240  
 TGCCCTCATG CTCCGGCTCT ATCTCTTCCC CATCCTCTTC CTCTTCTCT TCCTCTCTTT 300  
 CCTCTTCCCC TTCACTCGAG 320

(2) INFORMATION FOR SEQ ID NO:881:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 324 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:881:

GAATTCGGCC TTCATGGCNT AATCTGTAAC ATGAGGGAAT AAAC TAGTAT TATCTAAGCA 60  
 TTCTCTAGAC TTAAATATG ATTCCTAGAC CACTGAGGAG ATTAAAAATG AGGTGAGAGG 120  
 GATTTCAAAA TGAAGCGACC TGCCAGACAT GGTGGCTCAC AGCTGTCATC CCAACATTTT 180  
 GAGAGACTGA GGCAGGGGGA TCGATTGAGC CCAGGAGTTC AAGACCAGCC TGGACAACAT 240  
 CGCAAGACCC TGTCTCTACA AAATAAAAAA AATGTAAAAA TAGCTAGGTG TGGTGGCACA 300  
 CACCTATAGT CCCAGCTACT CGAG 324

(2) INFORMATION FOR SEQ ID NO:882:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 293 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:882:

GAATTCGGCC TTCATGGCCT ACAGAAATTG AGAGTAAACA GAAACATTTA TAGGTCATTT 60  
 GCTATTGATT ACGAACGTCT AAGTGCAATTT CAGTGTTTTA TATTTTACAA ATGTGTTGGA 120  
 ATTTTACTTT ACTTATTCTT TTGAGACAGG TTCTCGCACT CCAGCCTAGG CAACAGAGTG 180  
 AGACTCCGTC CCAATCAGTC AATCAATCAA TCAATCAATA CCACAGCGGA GAAATCTTT 240  
 ACAACTTTTG GTTAGGTAAT GATTTCTTAG GTAGGACACA CAAACACTC GAG 293

## (2) INFORMATION FOR SEQ ID NO:883:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:883:

```
GAATTCGGGC CTTATGGCC TACCTACGGA GTGCTTCTTT CTCACCCTGC ATGCTCACCA    60
CCTCTCTATT CTGCCTAGTT GCCGTCGCTA TATCCGCAGA CTCGGGGCTA TCCGGGAGCT    120
CAATAGGTAT GTGCCATGAT ACCGTGTCCT GGGATTGCCT GAGTTACCAC TTTTCTCAG    180
GGGCAGGCAA TTCCATTGTG AACAGTAGTT TTGAATGTTG GGGGAGGTAT GTACGTTATA    240
TAGTGTCTCT GTCTGCCTCC ACCGCCACAT CCATGTTGCT CAGTTGTCCA GAGTTCTTTA    300
CCTGGTGAAG TGATCCAAAC CTTGATTCTT GAGAGTTCTG AACCCCTCGA G          351
```

## (2) INFORMATION FOR SEQ ID NO:884:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 454 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

```
GAATTCGGCC TTCATGGCCT ACCTGGTGTG TTTTGTCTTT GTTTTACCC CTTGTCTTAT    60
GCCAGTGAGT TCCTTCGGGG TTAATCCTGC AGTAGGTGGA CTATCATCTG GGACAGTTGG    120
GGAAGCTTCG ACAGCCCTGA GTTCAGCAGC CCAGGTAGCT TTGCAGTCTC TCTCTCATGC    180
AATGGCTTCA GCCGAGCAAC AGCTACAGGT GCTGCAAGAG AAACAGCAGC AGCTTTTGAA    240
GCTTCAGCAA CAGAAAGCAA AGCTGGAAGC CAAGTTACAT CAGACAACAG CTGCAGCAGC    300
TGCAGCAGCA TCAGCAGTAG GTCCTGTTCA CAACTCTGTG CCTTCCAACC CAGTGGCTGC    360
CCCTGGATTG TTCATTATC CATCTGATGT TATCCACCC ACTCCAAAAA CAACACCTCT    420
TTTTATGACT CCACCACTCA CCCCAGCCCT CGAG          454
```

## (2) INFORMATION FOR SEQ ID NO:885:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 325 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

```
GAATTCGGCC TTCATGGCCT AGACGAATTT CAAGTATTTA TTACCTCTGT TGAATATAAT    60
TTATTGAACT GTAAGCTTAT ATATAATTCA ACTTTAAAAA ATGGCCTGAG TTGAACAACC    120
AGCTCACCAC AATTCTATAA TCTAGGAGTT GGCTCTCGTG GGTCCGCACA GGTACAGTAG    180
GGTGCCTGGT CCTGGTGGAG GGCAGGAGGC CCCCTTCCCC TGGCCTCCCT AGCCAGTCCC    240
CACACACAGC CCCAGTGGCC TCCACAGCTC CACCCTCCTT TCATGGCCGT TCTTTTCTTT    300
AGATGCCAAA AGCAGAAAGC TCGAG          325
```

## (2) INFORMATION FOR SEQ ID NO:886:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

```
GAATTCGGCC TTCATGGCCT AGGGAGAATT ATTTGATATT TGTGATACT TGACAGCAGA      60
TAATTTTTTA ACTGCAAGAC CACTAGAGGT CACCAGCGTA AAAC TTCAA CTTTGATTCT      120
GCTGGTAGTG AACTGAAAAG TTCAACTACT ATTCTGCAAT GTTTCCTTTG TTTCTTTTTT      180
TTTCTTTTTT TTGTTTGTAG ATGGAGTGTT GCTCTGTCAC CCAGGCTCGA G                231
```

## (2) INFORMATION FOR SEQ ID NO:887:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 355 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

```
GAATTCGGCC TTCATGGCCT AGTTGCAGAA GAAAAAAAAG AAAATCCATC CCTGCCACTC      60
ACAAGCTGCT ACCTACAGCA GATTACTATC CTAAGCCTCA ATTTTGCCAT CTGAAAAAAA      120
CAGAAAAAAC AGTTAATAAT ACCTCACCAG GTTCTTGCTA ATCTTTTAGT AACACAGAGG      180
AATCTTTTAG CCTTCTTTT TTTGTCTTAT AGCTTAAACC ATGCTGCAGG AAATGTATCA      240
ATCCAAGATA AAAGAGCTGA AATCCAAGAA CCTCCCCCTC ACATTTTGTT TGTGTTTG      300
TTTTGTTTGT TTTGTTTAG ACACAGGATC TTGCTCTGTC ACCCAGGCTC TCGAG          355
```

## (2) INFORMATION FOR SEQ ID NO:888:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 359 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

```
GAATTCGGCC TTCATGGCCT AGCCACCACG CCCAGCCTCA ATTGCATTTC TACACACAAG      60
GAATAATCCA AAAAGGAAAT TAAGGAAACA ATTCCATTTA CAGTAGCATC AATATGAATA      120
AAATATTTAG AAATAAACTT AACCAGTGAT GTACAGTGAC AGTATGTACA CTGAAAGCTA      180
CAAAACATCA CTAACATAAA TGAAGACAAA TTAGACATCC TGTGTTAATA CATTGGAAGG      240
CTCTTAAGCT GTCAATACTA AAGGTGATCT ACAAATTCAG TGCAATCCCT GTCAAAATCC      300
CAATGATGTT TTTGAAGAA ATAGAAAAAC TCATCTGGGA ATTCATACGG AATCTCGAG          359
```

## (2) INFORMATION FOR SEQ ID NO:889:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 203 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

GAATTCGGCC TTCATGGCCT ACTAAATTGG AATAAAAGTT TTAATAATAC TAACTTGTCT	60
TTTTTTTTTT TCTAAATTTG ATTCCATTGC TACTGTTAAT AGTATAAATC TTAAAGGGT	120
GAATTTTTTG GATGAAATTA ATGCTTATTC TTTTCTTTT AAACAGGGCA ATAAATGTGT	180
TCGTAAGTGC CAACCACTC GAG	203

(2) INFORMATION FOR SEQ ID NO:890:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 376 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGCCGGCC TTCATGGCCT AGTTGATTGG	60
TTTTCTTAGG TCAGCAATGA GTCTTAAAGA TAAATTTCT ACTGTGTAAT CTTTAGTGTT	120
TTCTTTTTTT TTTCAACTAT CTTTAAATCA GTTCAAACA TTTCAGTGAT TAAAGAGAG	180
ATTTGTTGTG GTTTGTTGT GGAGCAGAAA TGGATTTCAA GGAGTTTACC TTCAGAGCTT	240
TTGTTTTTGT TACGGTGGGT CTCTCTAGTG GAAAAAAAT TTCCCATCC CTTTGGAAAT	300
ATTTCTTTA AAGGAAATCA TGTTTTTAA ACAAATTATC GAAATCAGCT TTCTAATCAA	360
TTTGAATCAT CTCGAG	376

(2) INFORMATION FOR SEQ ID NO:891:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 335 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

GAATTCGGCC TTCATGGCCT ACGCTTGTC GTGGCTTCTC TGAGAAGAAA AGTTGAAAAA	60
GGGTAAAAGT TTTCAAGAAAT ATTCGGGCTC TCTATTGCTA AGCATAGCGA GTGTCGGTTT	120
TCTCTCTCCA ACAGACATCG CTATTGCGGT TCCGAGGCAG TGGGAAGAGA TCGCGCCCTT	180
GGACATCGTC GAGCTGGCGG AACCGGAGGA AGTGGAGGTG CTGGAGCCCG AGGAGGATTT	240
CGAGCAGTTT CTGCTCCCGG TCATCAACGA GATGCCGCGA GGACATCGCG TCGCTGACGC	300
GCGAGCACGG GCGGGCGTAC CCACGGACCC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:892:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC	TTCATGGCCT	AGTATCTTTA	AAGTTAATGT	CTAGCCAAGA	GTTTAGTAAA	60
CGAAGAATTA	AACGCACTG	TTGATCGGTG	CTTTGTGTAA	ATACATCTTT	AACATTTGGG	120
TGGAGAGGGG	CCTTAAGAAG	GACAGTTCAT	TGTAGGAAAG	CAATTCTGTA	CATGAGTTTA	180
AGCATTCTTG	TTGCATTGTC	TCTGCAGATT	CTATTTTGTG	TTACAATATT	GAAATGTATG	240
TTAGCAAAAT	GGGTGGATTT	TCAAATAAAA	TGCAGCTTCC	CACTCGAG		288

(2) INFORMATION FOR SEQ ID NO:893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

GAATTCGGCC	TTCATGGCCT	ACTCATCGCT	AGTCCATATT	TGGCCTCCTT	TTAAGCAGTT	60
AATTAACAGG	TATTTTATA	GCATAATGGG	TTTCCTCAAA	CCACCACCCA	ACCAAAACCC	120
AGCCCTTGAT	GATGACCTGC	GCCCACCACG	CAGGGCGCCC	TTGATGCACA	CGCACCTGCC	180
GCCCCGCCC	TGTGACCACC	GCCCTGAGTG	CCGGGCTCAT	CATCCCTTCC	ATGCCCTTTC	240
TACATTGCTA	CTAAGAACTC	GTGTGTATTC	ATTAAGACCA	TTACTTTTCT	TTCAGATTTT	300
AAATTTATTA	AAGGCTTTAG	TGCTGAATGT	GATTTTGAGG	ACTCTTTTAA	AAAAATACTT	360
TTGGTTGGAA	TGTGGACATT	TCCCACCTAG	CATTGTGTG	CTCATGTTCC	TCCATATTGA	420
TGTGTGTTTA	GCTAGAGTAC	CCCCGTCTAA	CTCTGCGAAT	ATGCCACACT	GTGTGCACCT	480
GCATACACTC	GAG					493

(2) INFORMATION FOR SEQ ID NO:894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GAATTCGGCC	TTCATGGCCT	AAAAAAGGA	AATAGAATCC	TATAATTTAC	CATGAAAATA	60
TTATGAAAGA	TACAGGTCAG	CATGTATTGT	AGGAGCAAAC	TTAGTGGTCC	TGCTGGTCTT	120
TTGGGTTTCA	TGGTTTGTGG	TTAAGTTTCA	AGTAAGTTCC	CTCTGGTCT	GGTGTGTTCT	180
GCTGCTGGTG	AGCTCCAGCA	GCTCAAACCA	GCTCTCTCCC	ATTAGTAAGC	CATGCTAAGT	240
TTAGTTTAAC	ACCCATAGTA	GGCCTAAAAG	CAGCCACCAA	TTAAGAAAGC	GTTCAAGCTC	300
AACACCCACA	TACTCGAG					318

(2) INFORMATION FOR SEQ ID NO:895:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



GAATTCGGCC TTCATGGCCT ATGACCTGGA AGAGTGGTGC GAAAGAGAGG AAGGGGCAGA	60
GGCCAGGAGT GTCATGCAAT TGCTGTGCCT CCTCACGGAA TTATTGAGTG TGTCCCCTGT	120
GTCATAGACC CATCACAGT GTCTCTTCCA GTAATTCGTG AGCTCCCTAA GGGCAGGGAC	180
TGTGTATACT TCTGGGCGCT AAAATGAGTG TGAATCCATG TCAGGCACTC TGTGCCAGTC	240
TTTATTGGAA ATATATGATT TTATCTTAAA TAGTTCTTCA ATGTAGGTAC TATCACTTGC	300
CCTGACTTTA GAGATACAGG CACTAAGGTT TGTGGAGGTA AATAACTTTC CCAAGATCCT	360
CGAG	364

## (2) INFORMATION FOR SEQ ID NO:899:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 307 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

GAATTCGGCC TTCATGGCCT AGGTGTTTAT GGATATCCTC CAGATTATTA TGGATATGAA	60
GATTATTATG ATTATTATGG TTATGATTAC CATAACTATC GTGGTGGATA TGAAGATCCA	120
TACTATGGTT ATGAAGATT TCAAGTTGGA GCTAGAGGAA GGGGTGGTAG AGGAGCAAGG	180
GGTGTGCTC CATCCAGAGG TCGTGGGGCT GCTCCTCCCC GCGGTAGAGC CGGTTATTCA	240
CAGAGAGGAG GTCCTGGATC AGCAAGAGGC GTTCGAGGTG CGAGAGGAGG TGTCCAACAA	300
ACTCGAG	307

## (2) INFORMATION FOR SEQ ID NO:900:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 478 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

GAATTCGGCC TTCATGGCCT AATTTCATC ANGAANTCNG TGAGGTTCTC AGATGTGGCA	60
ATGTCCACGC AGTTTCGCAC CANGGCATGG CGGTTCTTGT CTCCCATTTC TGGCTGTCCC	120
AGGTAGCGCA GATGCCAGGG TGCCCCTGCC CTGTCCATAG AGCGTCGGGC CCGTGAACA	180
AATGGGCTGG CTTGCTGGNC CTTAAGGAGG AATACCATCT CATGGTCAAG GAAAGTCTCA	240
GGTTCCATGT TGTCAACAA ACCACGAAGG CGGTGGATGA GGCTTCCAA ACTGTGATCT	300
AAAACACTTC CCTGCAACAG GTACTCCATC ATGTTAATGG TGCCCCCAGT GACAGGGATC	360
ATGGTGACTG GAGGTGCCTC CATGGTGTCT AAGTTGAAGA CAACACAACCT GGACTCAGAG	420
CCCCCAGTCA GGTAAGGCAC GGGATATACC TCCTTGAGGC TGTAGTGTCT TCCTCGAG	478

## (2) INFORMATION FOR SEQ ID NO:901:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 468 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

GTACCAGGCG	NATCCTGAAG	AGACACTACT	ACNACCAAAT	GGAACCCCAG	AAGAAATAAA	60
ATGTTTGGAT	CNAATAAAGA	AAATTGAAAC	NACTGGTTGC	NACCNAGAAA	TAACATCATT	120
TGAAATTAAT	CTGAAGGAAA	AAAAGTACCA	GGAGGACTTT	AACCCGCTGG	TGAGAGGATG	180
TTCCTGTAC	TGCTGTAAGA	ATCACACTCG	GGCATAATC	CACCATCTGC	TGGTGACCAA	240
TGAGCTGCTG	GCCGGAGTCC	TGCTTATGAT	GCACAACCTT	GAACACTACT	TTGGGTTTTT	300
CCATTACATC	CGGGAAGCAC	TAAAAAGTGA	CAAACTGGCA	CAGTTGAAAG	AGCTCATCCA	360
CAGGCAAGCA	TCTTGAGATC	TTGCAAATAC	AAGTCTCACT	CTTCACACTG	AGCCTGTACC	420
ACTGTTGTAA	CATGGGAAGA	CGTGAAGAAG	AAATAATCTG	AGCTCGAG		468

## (2) INFORMATION FOR SEQ ID NO:902:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 570 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

GAATTCGGCC	TTTCATGGNCT	AGCCAGGGAT	AAAAATACAA	TCTTCAAAGC	GGTCAGAGAA	60
AAAATGCAAA	TTATGAACAG	AGGCATCAAG	GTAACAATAA	CAGCCGAATT	CTGGTCAGAG	120
ACCAATGCAAA	CCACACATGA	GCAGAGCGGN	CCCTTTAAAG	AACTCAAAGG	AAAGAAAAAG	180
TGAATCGACC	TGGAGCTCAG	AGCCAGATAA	AATATCTTGA	AAATATGAAA	GTAACAAAAA	240
GAGAAGAGGA	GCTCATGAGG	GGAGAGGGAC	TAGTGTAAAG	AAAGGTGTGT	AGGTGGGAAA	300
AGGNCCAGTG	TGTTAGCAAA	TAGATAAGAA	AAGNAGACCA	CGCNAAGAGG	TAGACGAACA	360
GGCAAGGTTG	GTCATCAGGT	GAAAAGACAG	GTTAGTGGAC	GATCAAAGAG	GNTCTTGACT	420
GCCGTGCTAC	AATAAACTAC	ATATTTTTTT	TTCAGGCAAA	GTAAGGATTT	CAGAGATGAT	480
TTTAAACATG	GGATGATATA	ATGCACAGTA	TTTAGAAAT	ATTGTTCTAA	ATCAAGAGTG	540
GAGAACCCAC	TGCGGAGACA	AATTCTCGAG				570

## (2) INFORMATION FOR SEQ ID NO:903:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 322 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

GAATTCGGCT	TCATGGCCTA	CTCCCATCAA	ACTCCAGAGA	AGAGAGTGAA	TACTGGAGAA	60
GAAAGGAGGA	AAATATCTGA	GGAAGCAGCA	AGAAAGAGAA	GGCTGGAATT	TATTGAAAAA	120
GAAAAGAAAC	AAAAGGATCA	GATTATTAGT	TTAATGAAGG	CTGAACAAAT	GAAAAGGCAA	180
GAAAAGGAAA	GGTTGGAAAG	AATAAATAGG	GCCAGGGAAC	AAGGATGGAG	AAATGTGCTA	240
AGTGCTGGTG	GAAGTGGTGA	AGTAAGGCT	CCTTTTCTGG	GCAGTGGAGG	GACTATAGCT	300
CCATCATCTT	TTTCTTCTCG	AG				322

## (2) INFORMATION FOR SEQ ID NO:904:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 330 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:904:

GAATTCGGCC	TTCATGGCCT	AAATGTATGT	AAGGTACAGA	GAGGATGTCT	GGAGGTGCGC	60
CCTGTGGATA	TCTTAAGCCT	TTAAGGGTGA	GCAAAAAACA	ATAGGTTTAC	AAAGGAAAAAT	120
GAGAATGGGC	TATGAGAAAG	GTAAGAGGAA	AACCAAGGAA	AGAGAACGTT	TTGAGACAGT	180
AGTAGTGGTC	AGCAATGTCA	AATTGCTGCA	GAAATTTTCT	AAGAGTGAAA	TTGGGTTTAG	240
CAGCTGCAAG	AGGAGTTCAT	TTAATTGGTG	TAGCAGAAGC	CCATTAGATT	GCAGTGTGAT	300
GAGAAATTAT	TGGGAACAAG	GATACTCGAG				330

(2) INFORMATION FOR SEQ ID NO:905:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:905:

GAATTCGGCC	TTCATGGCCT	AGATGCCGCC	ATCTACCAGG	CCTCTGCCCC	AGAACAGCAA	60
GGGCATTGTG	TCCTGCTCAG	GGGTCCTGGA	GGTGGGCACC	ATGACTGAGT	ACAAGATCCA	120
CCAGCGCTGG	TTCGCCNAGT	TGAAGCGCAA	GGCTGCGGCA	AAGCTGCGCG	AGATCGAGCA	180
GAGCTGGAAG	CACGAGAAGG	CGGTGCCTGG	GGAGGTCGAC	ACTCTGCGCA	AGCTCAGCCC	240
CGACCGCTTC	CAGCGAAAGC	GCGATTGAG	CGGGGCTCAA	GCGCCGGGCC	CCTCGGTCCC	300
TACCAGGGAG	CCTGAGGGTG	GGACCCTGGC	GGCTTGGCAG	GAGGCAGAGA	CTGAGACTGC	360
TCAGCACTCA	GGTTTGGGCC	TGATCAACAG	TTTTGCTTCT	GGAGAAGTGA	CCACCAACGG	420
GGAGGCTGCC	CCCGAGAATG	GCGAGGCTCG	AG			452

(2) INFORMATION FOR SEQ ID NO:906:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:906:

GAATTCGGCC	TTCATGGCCT	AGCCATGGAT	TTAAAGAAAT	TGTGACTAAA	CCAATGTTTT	60
AGCATTGATA	AATGGGAAAT	TGCGGAAGGA	TGTAAACGTA	GAGTTTAACT	CTACAACCTG	120
GCTTAGGGAC	TCAGGTATGG	ACAGTGAGAA	TAACTTGGTT	TAGGGACTCA	GATATGGACA	180
GTGAGACTGG	CCACATGAGT	GCCTTTCTCA	CTGTCACACT	CTTACCCAGG	TTGGAGTGCA	240
GTGGCTGTGG	ACAGGTGTGA	TCATAGCTCC	CTGCAGCCTT	GAATTCCTGG	GCTCAAGCAG	300
TCCTGCCTCA	GCCTCCCAAG	GAGGTGGGAC	TAAAGATGGT	GTGCCACCAC	ACCTGGCTAA	360
TTTTTAAATT	TATTGTAGAG	AAGGGGTCTT	GCTATGTTGC	CCAGGTGGT	CTTGAACCCC	420
TGACCTCCAG	GGATCTCTCC	TGCCTTGGCC	TCCTCAGGAG	CTGGAACCTAC	AGATATATGC	480
TAATGTCTTC	AATTTATGGA	AATGCAGAAA	TGCTCGAG			518

(2) INFORMATION FOR SEQ ID NO:907:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCC	TTCATGGCCT	ACTTGTGCT	GCGCTTTGAC	ATCAGCTTGA	AGAAGAATAC	60
CCACACCTAC	TTCTACACCA	GCTTTGCAGC	CTACATCTTC	GGCCTGGGCC	TTACCATCTT	120
CATCATGCAC	ATCTTCAAGC	ATGCTCAGCC	TGCCCTCCTA	TACCTGGTCC	CCGCTGCAT	180
CGGTTTTCT	GTCTGGTGG	CGCTGGCCAA	GGGAGAAAGT	ACAGAGATGT	TCAGTACGA	240
GTCCTCGGCG	GAAATCCTGC	CTCATACCCC	GAGGCTCACC	CACTTCCCCA	CAGTCTCGGG	300
CTCCCCAGCC	AGCCTGGCCG	ACTCCATGCA	GCAGAAGCTA	GCTGGCCCTC	GCCGCCGGCG	360
CCCGCAGAAT	CCGAGCGGTC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:908:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 630 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	TTCATGGCCT	ACCCCTGTCC	ACTTTGGTCA	CTGTTGGCTG	GGGCCCCGTGG	60
AGCTGTCCAG	AGGGGACCGG	GGCCAGTAGA	GTAGAGGACA	GTATTTGTAG	AGCAGGCATT	120
TCTTCTGAGG	TTCTTGGGA	TCCCCTGAGC	TATGAAAGCT	GGAAGCAGTT	GAAAGTTTTT	180
AGGGAGAGGG	ATGCTGGAGT	CTCAGAACTT	TAGAGGTGCT	GCAGGAGTCA	GTTCTGGCAG	240
TGAGAGAACA	CTTGGGCGGG	TTTCACACAC	ACACAGCACT	TGAGCCATTG	TTGGGCAGAA	300
GGGGCCTCAC	TTCCAAGCAC	AAGGAGTGTT	AACGAAAAAT	TATTAACATG	GTAAGGAAGA	360
CTTTATTTCAG	GGCCATTGCA	GTAGGCATCC	CAATAGTGGG	GAGAGATGGG	GCTCAATTCC	420
AAGTACAAGA	AGAACAAGTG	GGCACTTAGC	CAAGGAGCAG	GTGGGAGGGG	GTCAGAGGAT	480
AGAAAATTAC	TAAGAGGAGA	CGTCAAGGTT	AGGGGGATTG	TTGCTGAAGT	CAGGCCAAGG	540
AGCAGGTGGG	AGGGGGTCAG	AGGATGGAAA	ATTACTAAGA	GGAGACGTCA	AGGTTAGGGG	600
GATTCTTGCT	GAAGTCAGGC	CTTGCTCGAG				630

(2) INFORMATION FOR SEQ ID NO:909:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 678 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

GAATTCGGCC	TTCATGGCCT	AGACGGTGAT	GTTTTTGGTA	AACAGGCGGG	GTAAGATTTC	60
CCGAGTTCCT	TTTACTTTT	TTAACCTTTC	CTTATGAGCA	TGCCTGTGTT	GGGTTGACAG	120
TGAGGGTAAT	AATGACTTGT	TGGTTGATTG	TAGATATTGG	GCTGTTAATT	GTCAGTTCAG	180
TGTTTTAATC	TGACGCAGGC	TTATGCGGAG	GAGAATGTTT	TCATGTTACT	TATACTAACA	240
TTAGTTCTTC	TATAGGGTGA	TAGATTGGTC	CAATTGGGTG	TGAGGAGTTC	AGTTTATATGT	300
TTGGGATTTT	TTGAGGGGTG	TAGGGATGCG	AGCTCTGGAG	GGGACCCCTC	TTTCAGGACA	360
GCGCCCTGGC	CCCCAGTGCC	CCACTCACCT	TCCTGGGCGG	GAACCTCAAG	TGCAGCCAGG	420
CTGGGGGACA	GAGTTCCTCC	CAAGCTGAGA	CAGGAGGGGT	CTCAGGCGGC	AAAATTCTCT	480

CTCCAACCTCC	TGGTGGGGTG	GGGGTCATGG	ATGAGGGGGG	CCCCTTCCTT	CCCCAGCCCA	540
CTCAGGGCAC	CCCTGGCCCG	TCCCGCCCCA	CCTCCAGCTG	CTTCATGGTC	TCCTCCAAGC	500
TGAGCAGGTT	CTCCTGGATT	TCCTGGGTCC	GTGCTGGGCT	CAGGGGGCCG	CCCCCTGGGA	560
CCCCATCCCC	ATCTCGAG					578

## (2) INFORMATION FOR SEQ ID NO:910:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 634 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

GAATTCGGCC	TTCATGGCCT	AAGAAGAGGA	GGAAGAAGAC	GGGGCTGCAG	TTGCTGAGAA	60
ATCACATCGA	AGAGCTGAAA	TGTAGCGGCA	CCCAATTTCT	AGACAACGCT	CAGCCCAACGG	120
ATTCTTTTCA	AGCTGCTCAA	ACATAAATCT	GCCTACTGAA	CTCTAGGATA	TTTAATTACA	180
AAAATTAAGA	ACTTAGACTT	TTTTAAACT	TTTGTATTAG	AAATGCGCAT	ACATTTATAT	240
GAATATATTT	TGATAACGTA	GGTCTAGAGC	TTCTTTTATA	TTCAAGCTTA	ACATGANAAA	300
GAAGAAAAAC	AATAAAGTAA	ACCTGAGCCCC	CCACGTCCCA	ATTTTTTAAT	AGATTATGTG	360
ATGTTGGAAA	GCTCATTGAT	TTTGTATATG	TTTCAGCGTG	TTACCTTTCT	GGCTTCCAGT	420
TCCCAGGTGT	TCTTTGTTTG	CCTTTGATAA	AATACAGGAT	TTAAGAACAG	AGAGTACTGC	480
AAAATGCCAT	GCAGACTTTA	AAGAGAATGG	CCTGTTTACT	AATTGCTGCC	CTTCTGATGT	540
CTTTATGTAT	AGCTCTGATA	GAATTTTCAC	CAGTCTATGT	ATCTCTGGAG	TGAGATCCTA	600
TGTACAAAGT	GACATACAAT	TGGAATCCT	CGAG			634

## (2) INFORMATION FOR SEQ ID NO:911:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

CTCGACCTTC	ATGGCCTAAT	GAGCTGTITT	GTAAACGAGA	TTTGTTTTGT	GGGAAAGGGA	60
ATTTTGTTTC	AAGACTTCCC	TAAGAACTG	ATAGCATCGG	GTAATTCCTA	AATTTGACTT	120
ATCATAATGG	TATATCTGGA	AGGAATTTGT	CAACTGATAT	GTTATAATTA	TTTTTTAATT	180
TTTTTTAATT	TTTGAGATAG	GTCTTACTCT	CTTGCCCAGA	CTGGAGTGCA	GTGGTGTGAT	240
CATGGTTCAC	AGCAGCCTCA	AACTCCTGGG	CTCAAGAGAT	CCTCCCACCT	CAGTCTCCTG	300
AGTAGCTGGG	ACTAAAGGCA	TGTGCCACCA	TGCCTGGCTA	GTTAATTTT	TTTTTTTTTT	360
TTAAGTAGAG	ATGAAGTCTT	GCTGTGTTGT	CCAAGCTGGT	CTCACACTCC	TGAGCTTGAG	420
CAACCCTCCT	CTAGGCCATG	AAGGCCGAAT	TC			452

## (2) INFORMATION FOR SEQ ID NO:912:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

GAATTCGGCC	TTCATGGCCT	AGCGGGCTAT	GTGGCTGATT	GAAGAGTATG	CAATGAGCGA	60
TTTtaggtct	gTTTgTCGTA	GGCAGATGGA	GCTTGTtATA	ATTATGCCTC	ATAGGGATAG	120
TACAAGGAAG	GGGTAGGCTA	TGTGTTTTGT	CAGGGGGTTG	AGTTTGATGA	GTTTAGGCAG	180
GGCCTGGATC	ACCTCTTTCT	TCTCCAGCCC	ATTGAGCACC	GGGATGAGGA	AGCGGACGTC	240
TGGCAGTCGC	TTGTGGTAGA	GATCCCGGAC	CCGCTTCACC	AGCTCTGGGG	AGGGTGGGAC	300
TTTGTCTGTG	AGGCTGTGCA	GACATCTCGT	GACCAGTGTG	TCTGCTCCCT	TGGGACAATT	360
TTCCACCAGC	AGGAGCAGCT	CCGGGGAGTT	CATGCCCATT	CCTCGGATCG	GCTGCTCAAT	420
GACCTCAGC	ACCGTCCGCT	TGATGTCGGC	GATGGCTTCA	GTGTACACGG	CCGCCAGTTC	480
GTGGATCAGC	TTGTGGGCTC	GAG				503

## (2) INFORMATION FOR SEQ ID NO:913:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 336 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:

GAATTCGGCC	TTCATGGCCT	AAAAGATATT	ATTTTAAATT	AATTTTGAAC	TATAGAAAAG	60
TAGTACAAAT	AATTCAGAAA	ACTCCCATAT	TTACTTTTACA	TGGATTACAC	AATTTTAAAC	120
ATTTTGCTAC	ATTTGTTTGC	TTCTCTCGCT	GTCTCTACAC	ACACATACAC	ACACAAATTT	180
TTGGGAGGTC	TAGTGACGCT	CCCGGCCGGC	CCAGGAGGAC	AGGAAAACAT	CACTCACGAA	240
GTCACTCTTG	GCCCCGAGCC	GCTTTGTCCT	GTCTTCTGTC	AGGAGGCCCT	CCAGGAGGTC	300
TCTTGCGGAA	TTGTAAATAT	TTGGTTTCAT	CTCGAG			336

## (2) INFORMATION FOR SEQ ID NO:914:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:

GAATTCGGCC	TTCATGGCCT	AGACAGTCAA	TGTGGATGAG	AACTAATCGC	TGATCGTCAG	60
ATCAAATAAA	GTTATAAAAT	TGCAAAAAAA	AAAAAATAAA	AAGAAGTGAG	GATGACAGGA	120
GAAGGTAGAT	GGTGCAACAT	GAGGGTGCTT	TCTACCAACA	AGGTGTGCAG	CATTGGACAC	180
GCATGACCAC	GTGACCTGCA	GCTCTGATGG	TGCAACATGA	GGGTATGTCC	TACCAACAAG	240
GTGTGCAGCA	TTGGACATAC	TTGACCACGT	GACCTGCGGC	TCTGAAGGTC	CCACCTGTTC	300
TCGTTCTAAA	GTCAACATTT	CTGACCGCTG	TGCTGTGGAA	GGGGAGGCAA	TCAACCAGAA	360
CTCGAG						366

## (2) INFORMATION FOR SEQ ID NO:915:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 391 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:

```

GAATTCGGCC TTCATGGCCT AGGCAACAAG AGCCCTGAAG TGCTCCGGGC ATTTGATGTA      60
CCAGACGCAG AGGCACGAGA GCATCCACG GTGGTACCCA GTCATAAATC ACCTGTTTGT      120
GATACAAAGC CCAAGGAGAC AGGTGGAATC CTGGGGGAAG GCACACCGAA AGAAAGCAGT      180
ACTGAAAGCA GCCAGTCGGC CAAGCCTGTC TCTGGCCAAG ACACATCAGG GAATACAGAA      240
GGTTCACCCG CAGCGGAAAA GGCCAGCTC AAGTCTGAAG CCGCAGGCAG CCCAGACCAA      300
GGCAGCATAT ACAGCCCCGC AAGAGGTGTG GCTGGACCAC GTGGACAGGA TCCGGTCAGC      360
AGCCCCGTGT GCTAGAGGAA CACCACTCGA G

```

(2) INFORMATION FOR SEQ ID NO:916:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:

```

GAATTCGGCC TTCATGGCCT ACGGGTGTTC GAGGAGTACA TGCGGGTTAT TAGCCAGCGG      60
TACCCAGACA TCCGCATTGA AGGAGAGAAT TACCTCCCTC AACCAATATA TAGACACATA      120
GCATCTTTCC TGTCAGTCTT CAACTAGTA TTAATAGGCT TAATAATTGT TGGCAAGGAT      180
CCTTTTGCTT TCTTTGGCAT GCAAGCTCCT AGCATCTGGC AGTGGGGCCA AGAAAATAAG      240
GTTTATGCAT GTATGATGGT TTTCTTCTTG AGCAACATGA TTGAGAACCA GTGTATGTCA      300
ACAGGTGCAT TTGAGATAAC TTTAAATGAT GTACCTGTGT GGTCTAAGCT GGAATCTGGT      360
CACCTTCCAT CCACACTCGA G

```

(2) INFORMATION FOR SEQ ID NO:917:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 621 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:

```

AGATGGACTG GCTTCAGCTG GTTTTGGAGG TGCTTGTGTT TGGAANAAAT GCAGGGATGG      60
CAGANGCCTG GCTCTGCAGC CAGGANCCAC TGGTGCGCAG CGCTGAGCTG GGTTCACAGG      120
TCGACGAAGT TGAGAGCCTC ATCAAGCGGC ACGAGGCCTT CCAGAAGTCA GCAGTGGCCT      180
GGGAGGAGCG ATTCTGTGCG CTGGAGAAGC TTACTGCGCT AGAGGAGCGG GAGAAGGAGC      240
GAAAGAGAAA GAGGGAGGAG GAGGAGCGGC GGAAACAGCC GCTTGCTCCC GAACCCACAG      300
CCAGTGTGCC TCCAGGGGAC TTGGTGGGCG GCCAGACAGC TTCTGACACC ACCTGGGACG      360
GAACCCAGCC ACGGCCACCA CCATCCACAC AAGCAGCCAG TGTTAATGGA GTCTGCACAG      420
ATGGAGAGCC CTCACAGCCC CTGCTGGGAC AACAGAGACT TGAGCACAGC AGCTTCCCCG      480
AAGGGCCGGG ACCTGGCTCA GGGGACGAAG CCAATGGGCC CCGGGGAGAG AGGCAGACCC      540
GGACTCGGGG CCGGGCCCCA TCTGCAATGC CCCAGAGCAG GTCTACCGAG TCAGCCCATG      600
CTGCCACCCT GCCGCTCGA G

```

(2) INFORMATION FOR SEQ ID NO:918:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 547 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

```

GAATTCGGCC TTCATGGCCT AACATGGGTG ACACGGATGT CTATAGTGTC CACCACATTG      60
TCTGGCATGT GGAGGAAGGA GGCCCAGCCC AGGAGGCAGG ACTCTGTGCT GGGGACCTCA      120
TCACCCACGT GAATGGGGAG CCTGTGCATG GCATGGTGCA TCCTGAGGTC GTGGAGCTGA      180
TCCTTAAGAG TGGCAACAAG GTAGCAGTGA CCACAACGCC CTTCGAAAAT ACCTCTATCC      240
GCATTGGTCC CGCAAGGCGC AGCAGCTACA AGGCTAAAAT GGCTCGGAGG AACAAAGCGAC      300
CCTCCGCCAA GGAGGGCCAG GAGAGCAAGA AGCGCAGCTC CCTCTTCCGG AAGATCACGA      360
AGCAGTCGAA CCTGCTGCAT ACTAGCCGCT CGTGTGCTC GCTGAACCGC TCGTGTGCAT      420
CCAGCGATAG TCTCCCGGGC TCGCCTACGC ACGGGCTGCC GGCGCGCTCG CCCACGCACA      480
GCTACCGCTC CACGCCTGAC TCCGCTACC TAGGCGCCTC ATCCAGAGC AGCTCCCCAG      540
CCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:919:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 610 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:

```

GAATTCGGCC TTCATGGCCT ANACACTCTT CCTCTTCTCC TTTTTCCTTT AGAGATATGA      60
ATCAGGTTCT TGATGCCTAT GAAAATAAGA AGCCATTTTA TCTGTACACG GGCCGGGGCC      120
CCTCTTCTGA AGCAATGCAT GTAGGTCACC TCATTCCATT TATTTTCACA AAGTAAGTAT      180
NNGATCTTAT GGCTTTTCTT ACTCTCTTAG TGAATTGAGA ATGTTGCTTA TAAACCATGT      240
TTAGAACTGA CAAGATCATG CTAGTTCATT TGCTGAGCAA CCAAGATGTC AAGAGTTGGC      300
ACTTTTTTGG CTTCATTCA CTTTGTTCCT GGGCTCACTT TAGAGGACCA TGGAGTGATG      360
GGGAGAGCGC AGCTTTGGAG TCAGCCAGGC CTGCTCCTCT TCTCATCTG CTCCTGTCT      420
GCATGGCCAT GGGCCTGCTA CTTCTCTGAG CCTAAGTTTC CACATCTGCA AGATGAGAAT      480
GAAGATACCT ACCTCATAGA ACTACTGTAA AGCTTCAAAA CAAAGTGTGT AGAGCAGCTA      540
ACACAGAGCA CACAGGGCCA CCTGGTCGAT AAATGGTAGT AGACCTTATC ATTATCCATA      600
GTCCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:920:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:

```

GAATTCGGCC TTCATGGCCT ACTAACTCTC CTTCTCAAAA CACCAAAAGT AAATTTTAAT      60
ACCAAAAACG AAATTCATTT TGTTAATCAC AGCTTAGAAG GTTTCATATG ATCTGGCCAA      120
ATCTGTATCT TGCATCACTC TTATCACTCC CCCTCTCTGC TCACTGTATC TGCATGATAG      180

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GAATCAGCTC ATCTTCCTAT ACATCAGTAC TAAACAACC TCACTCCTAC CTGAGGCCCT 240  
 GTGTGCTGTC TGTAGATGGT CCATCTTCTC ACTTCACTCA GGACTCAAAT GTCCCTCTT 300  
 CACTCGAG 308

## (2) INFORMATION FOR SEQ ID NO:921:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 293 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:

GCAACCGGGT TTTGCCAGGG CCTATTGCAC CAGAGAGCAG CAAGAAGCGG GCCCGTAGGA 60  
 TGCGACCAGA CCTTTCTAAG ATGATGGCCC TCATGCAGGG TGGAAAGCACT GGGTCTCTAT 120  
 CTCTGCATAA CACGTTCCAA CACAGCAGTA GTGGCCTACA GTCTGTGTCA TCTTTGGGTC 180  
 ACAGCAGTGC CACTTCTGCA TCTTTGCCTT TTATGCCATT TGTGATGGGT GGTGCACCAT 240  
 CATCCCTCA TGTAGACTCC AGCACCATGC TTCATACCA CCACCACCTC GAG 293

## (2) INFORMATION FOR SEQ ID NO:922:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 492 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

GAATTCGGCC TTCATGGCCT AGTGGGGCCT GTTTATAGTT GACTGACAGT AAGTTCTATA 60  
 TGGTATATAA CACTAATTCT CTAGTCTTCT GGGCATATCT ACGAACAAAT ACAATCCAAA 120  
 TATTATGAGT AACTGGGTTG TGACCACTGC ATGCATTACA CTGAAAGAAA CACCAACTCG 180  
 AAGCACAAAT ATATTATTAT TATATTTCCG CTCAGCTCTC AGTGGGGAGA GCAGCTACCT 240  
 CGGACCACAA TGCCATTAA ACCAGATTCT TTTCAAATAA AATTCTCAAT CTAAGTGGAA 300  
 AGCCCCCTCA GAGAAATGCCT TATCCCCCTA CTAAGCAATC CAGGCTTGTA TAAACCTCT 360  
 GATAAGGCCT GTAGTGCCCA TTGAGTATGA GTCTGCTGTT TACATTCTGC ACAGGCCAGG 420  
 AGGGGAACAG AAGGTGTGAG CCACAGGTGC TCCTGGGTCT GACCAGCAAG TCTAACCCAT 480  
 GAAGATCTCG AG 492

## (2) INFORMATION FOR SEQ ID NO:923:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 650 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

AAATAACCAC AAATATNAAG AAATTATAAT CAGGGCAACA GATTAAAATG AAAAGGGGTA 60  
 TAGAAAGATA TATTTTAGAT AATATAACT CCTGACAAGC TATGCCCTAG AATTGCAGCC 120  
 TCCAAACCTT GCCCANGATT TCCACCTTTC CATAGCCTCA CTTCAAGTTC AAATGGAAT 180

GAAAAACAAA	TAAAGTGAAC	AGGTGGTTGA	GCCAGCCNAA	GCCTCCCAAG	TTATGTTAGG	240
TGGACAGTAA	GACCAGGTGG	ACAGCATTGG	AGAAACTGGC	TGGACACAGG	GGAGCTGCTA	300
CTGGTAGTTA	TATTTAATTT	GGAGGAATTT	CCAGCCCACT	GATAAAGAGA	GAAACCAAGG	360
AACCAAATGA	CTTTTCTAGT	AACATATAAT	ATATGAGATG	AAATATAATT	CTGTTAGAGA	420
GGACATGGTG	GTGAGATGGG	AAAGAAAAGA	GAAGAGAAAC	AGGCAGACTT	CGGGCACCAT	480
CTCCCTTTGT	TTTCTACAAT	GCATTGGTTT	CCTTCTGTTG	CGGAGCATTG	TTTAGGATTA	540
GCTACAGACC	CCAATGTCCT	CTGAGTAAAT	ATATGTCAGC	TCAGCTCCTG	ACATGATATC	600
CATGCTTATT	GGCCTCCTGG	AGGGCTGGGT	GGTTCTCAGG	GTCCCTCGAG		650

## (2) INFORMATION FOR SEQ ID NO:924:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 527 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

TGAGCTGCGC	TAAACTCCAC	CGTGACCTCA	AACTCTTTGG	ACTGTTTGAA	AAAAAAAAAA	60
NTNGGAAGAA	ANTCCATCCT	CCAANANAAT	CGGCTTAGGA	GGAGATGGAA	CTTNNCCCT	120
TTCTCTNGGT	TTNGTCCGTC	TGGTGGTCTC	GAACCTGGGA	TTCGGCGAAT	GCGGATTGGA	180
TCATTACAT	CGGAGCAATT	TTTGATGAAT	CTGCCAAAAA	GGATGATGAG	GTATTTCCGA	240
CTGCGGTTGG	TGACCTTAAC	CAGAATGAGG	AGATCTTACA	GACTGAGAAA	ATCACATTTT	300
CAGTGACGTT	TGTTGATGGC	AACAACCTTT	TCCAAGCAGT	TCAAGAAGCC	TGTGAACCTA	360
TGAATCAAGG	CATCTTGGCC	CTGGTCAGCT	CCATTGGCTG	CACGTCAGCA	GGATCCCTCC	420
AGTCTTTGGC	AGACGCCATG	CATATCCCCC	ACCTCTTCAT	TCAGCGCTCA	ACAGCTGGGA	480
CCCCAAGGAG	TGGCTGTGGA	CTCACCCTGA	GCAACAGGAA	TCTCGAG		527

## (2) INFORMATION FOR SEQ ID NO:925:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

GATTGCGCCT	TCATGGCCTA	GAACCTTTCTA	CTTGGACAAC	TAACACCCAC	AGTCCTCCAG	60
ACAGAAAGAC	AACAGGTACA	AAGCCCTAAG	GATTATAAAG	GTATGCTGCT	TACCATCATC	120
TTAGTGACCA	AGGCAGCGAA	GCTGTTTCTG	TACCTTGGAA	CAGTCTTCCC	TGACAAGCCA	180
GAGAACAGTG	ATAAAGCCAC	CAGCCTTGGG	ATCAGGACTG	AAAAGGCAAG	AGTGATGGAG	240
ATTTCTCCTG	CGCTAAGCCA	AGAGAAGGTT	TCAGCACTTC	AGACAGCTCC	CACCGAAGTA	300
GCCGATCTCG	AG					312

## (2) INFORMATION FOR SEQ ID NO:926:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

GAATTCGGCC	TTCATGGCCT	AAGATGTTG	TCTTTATCCA	GTAAGGTGTT	TGTATGCTCC	60
TTAAGTGCCA	GCGGGGAGTG	AGCAGAGCAG	TGAAGATAAA	CATGAAAGCT	GGTGGTAACA	120
AATCCTGATA	CCTCCTCTAT	TCCAAAAGGA	AAGGCAGAAC	TCAGAGGCAC	CATCCTCCTG	180
TTGTGTTTGC	AAGCTGTTGA	CACAACCTGG	AAAGGTAA	AGTTTCAAC	AGACTTGTCA	240
GAGTTTGTGT	TCAATGGAAA	CTGACAGAGC	CTACCGGCTG	AGGGGCTAAT	TTTAATAGAA	300
ATAACCTAGG	TGCGCGCTCG	AG				322

## (2) INFORMATION FOR SEQ ID NO:927:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

GAATTCGGCC	TTCATGGCCT	AGTGGAAC	TA	GACTGCCAGC	TGTGAGCCTC	AGAGCTCCTG	60
GCTGCCCTGTT	GCTGAGTCTA	TCAGCTGCTG	AGCCTTTCTC	ACCNAAAAA	AAAAA		120
AAAAAAAAAAN	TGNGCTTAAT	AAAAATAACC	TGCACAGAAA	TTTTCTGAAA	TTAAGATAAC		180
ATTCAATGGA	AAACAGAA	TT	TAATCTACAG	AAATACACTT	CACAGATGTT	TTAGGAACAG	240
AACCTAGAGA	AAATGAAAGT	CAAAATTTAA	TAAAAGAATT	TGTCAGGAAC	TTCAAGGTAA		300
AGACTCCATG	TATTTTTTGG	CAACTATAAA	ACACTAAGAA	GGCTTTTTTAA	ATATTA	AAAAA	360
GCCATTTAAA	CACCTCAAAT	TAAGATTCTT	CAATATACTT	CAGATTCTG	TACTGAGTTA		420
CCCTCTCGAG							430

## (2) INFORMATION FOR SEQ ID NO:928:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 498 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:

GAATTCGGCC	TCATGGCCTA	CGTTAGTGTG	TGGATAGTAT	GTGTGTGTCC	GCACTCATGA	60
TAACTTGAAA	CCAGACATAG	GGTTCATTTT	TGAAAGGTTA	AACCACACTG	TTTCAGGAAC	120
TTGCTCCAAA	TACTACTTGG	TTATCCCTTC	CTTTACCAGT	TAGAACTAAA	GAGTGTGATG	180
TATGAACACA	CTGGGTGGG	ATTTTCTGTT	GAGGATATGC	AGGGCATTTT	GGCATGAGGC	240
AAATACAGAA	GCAAGATTTC	ATTCTACTTG	GTGATTTGAA	TCATGACAGT	CCTCATTCCA	300
ATCTCTCTTT	AATTCTCTCT	GGCCCTGCCC	ACACTCTGTA	TTTGAAAATC	TTGTTTTTGC	360
TCTTTCCGGA	GCTTCACCCC	TCTACTTACA	TATTGTAAAG	TTGTATAAAT	CTATCATTGA	420
AAGGTCTCTCT	CTGCCAGCAG	TGGTGCCACC	CTTTGGTTTG	CTGTGGTACT	TTGCTGTGTA	480
CTCCGTGGCA	TACTCGAG					498

## (2) INFORMATION FOR SEQ ID NO:929:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 566 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

```

GAATTCGGCC TTCATGGCCT AGTTAAGGGC ATTTACTCAT GTTGAACCTA GTTTTATTTA    60
CAGTATATTT GTATGCATAG AAGATGGAGG TCCACCAAAG TGTAAATTAT GCTTAGTTGT    120
AGGTCAGGTA TAGCTAACTT TCCTTTTTTA ATATATATAT TTACATTGTG GTTTCCTTTA    180
TAATTTATGG CATAGATTGC CACGATTTTC TTAAGTATAC TTTTATAATC AGAAAAATGA    240
TATTAAGGAC TCATTTTAAG TACACTAAAT CAAATATTAG AAGGCTTCTT TATTTTAAGC    300
TAATTGTGAG GATTATTTGT CATTTAAAAC TTTTGCTTCT ACTTATTACC CTGAAGTATC    360
TTTGTGGTGC TTATGTTTTT CACAGACTGT ATAAATTGAT ATACTCTCCC GCCCATGGT    420
AATGTTGCTA CACATAAGCT CTAATAATTA TCATTTTAA TGTTTAAGA TTAATTC AAC    480
TAAGTTTAA AAATAATCCA TTGGTTACAT ACATAAGAAA GTACTGTATA CAGATTC CCC    540
TGACTTATAA TGGTTCGACT CTCGAG                                     566

```

(2) INFORMATION FOR SEQ ID NO:930:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

```

GTGATATGAC ACTGACAGAA TTCAAGTTCA TCTGGTACAT GGAGTACTCA CACCGAATGT    60
GGGGTCGCCT TGTAGGCCTT GTGAACATCC TGCCTGCTGC CTACTTTTGG AGAAAGGGCT    120
GGCTCAGCCG TGGCATGAAA GGACGTGTTT TGCCCTCTG TGGCCTCGTC TGCTCCAGG    180
GTCTGTTGGG ATGGTATATG GTGAAAAGTG GACTAGAAGA AAAATCAGAC TCCCATGACA    240
TCCCTCGGGT CAGTCAGTAC CGCCTTGCTG CCCACCTGGG ATCAGCCCTG GTTCTTTATT    300
GTGCCAGCTT GTGGACCTCA CTGTCACTGC TACTCCCTCC GCACAAGTTG CCTGAAACCC    360
ACCAACTCCT ACAGTTGAGA CGATTTGCTC ATGGAACAGC AGGTCTGGTG TTCCTTACGG    420
CCCTCTCAGG GGCTTTTGTG GCAGGGCTAG ATGCTGGGCT TGTTTATAAC TCCTTCCCA    480
AAATGGGAGA ATCCGGATCC CTCGAG                                     506

```

(2) INFORMATION FOR SEQ ID NO:931:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

```

GGGAAATTAG AAAGGGAGGG CCTGAGTTGG TTGCTATTCC TGAAAGTTTC TTTGAATGGA    60
ATACTGGATC ATCGTTTTTG AAGAGGTCTG TTGTACTTC ATTATTACCT CCTTTAGCAG    120
CACCTTGTT TTCCTCCAAC CTCTGCCAAG ATTAGTGTC TGTGTCTACA TTTGCCCTT    180
CTGTTTCTCA TACTCCCAGA TGGAAATATT ATATTCTTA GGACTTTTCG CTCTATTGA    240
ATTAGTATTT TCTACTCGAA ACACCCTCGA G                                     271

```

(2) INFORMATION FOR SEQ ID NO:932:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

GAATTCGGCC	TTCATGGCCT	ACATTTACTT	TTGTTACACA	GGGCACTACT	TTGATTTCCTA	60
TTAGTGCTGT	TTGTGATTGT	GTATGTCTTT	CACTTGAAAT	CCACCATGAA	GGTGAAAATT	120
TGTTTGAACC	GTGGCACTAT	ATGGCAGTGC	AGTGTAGTCA	GTGTGTTTG	TAGTCCGGAT	180
TATCAGAGCT	TGAATTCTGG	TTCTGCTGCT	CACTAGCTTC	TTCTTGACACA	CTGTTTCAGT	240
GTACTCAGCC	TCACCTTTTA	TTTTATTTCT	ACAGAGTCCC	ATTGGTGTG	TAAGCTGGTC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:933:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 463 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

GCGGTGGCAC	GATCTCGGCT	CACTGCAACC	TCCACCTTCG	TTCAAGCGTC	CACCATGCCT	60
AGCTAATTTT	TTTGTATTTT	TGGTAGAGTC	AGGAGTTCGA	GACCAGCCTG	GGCAACATGG	120
CAAAACCCCA	TCTCTACTAA	AAATACAAAA	TGTACTCAGG	CGTGGTGGTG	CCCGCCTGTG	180
ATGCCAGCTA	CTCAAGAGGC	TGAGGTGGGG	ATCACCTGAG	CCCAGTATGT	CGAGGCTGCG	240
GTGAGCCATG	ATTGCGCCAT	TGCACTCCAT	CCGGGTGAGA	CTGAGACCCC	GTCTCCAAAA	300
AAAAAAAAAA	AAAGAAAGTG	AAATAATTTG	TGGACAACAC	AGAATTACAA	ACTTTTTATT	360
TTGTCTTTTT	AAAGTTACCA	CAAATTGTCA	CCACCATTCT	CTGAAAGGAC	ATTAACACCT	420
GAATATATTT	AGTTTCATGA	AAATTTCACT	TTTAACACTC	GAG		463

(2) INFORMATION FOR SEQ ID NO:934:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 290 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:934:

GAGCATCCTG	GGGAGCACCC	ATTTCCTGGG	AACAAGCTGA	CCCTTTTGCG	TCCTTAAAAA	60
AAGTCGGCCA	AGATTCCATA	GTGCTGCTGA	TCTGCATTAC	AGTGTTTCTC	TCCTACCTAC	120
CGGAGGCAGG	CCAATATTCC	AGCTTTTTTT	TATACCTCAG	ACAGATAATG	AAATTTTCAC	180
CAGAAAGTGT	TGCAGCGTTT	ATAGCAGTCC	TTGGCATTCT	TTCCATTATT	GCACAGACCA	240
TAGTCTTGAG	TTTACTTATG	AGGTCAATTG	GAAATAAGAA	CACACTCGAG		290

(2) INFORMATION FOR SEQ ID NO:935:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 297 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:935:

GAATTCGGCC	TTCATGGCCT	AGTTTGGCCC	GGCAGCCTCT	CAGGTTGGAC	TTCTCAGGAT	60
TTGCCATTG	TTTAAATCCC	TGAGACCACA	CAGTTGATGT	TTAGAGCCTG	CCCTGCATGT	120
GATCGTTCCA	GTGGAGGATA	CAGCATGGGG	TCTGGCCTCC	AGCAGGGTCC	TCCCCAGGCC	180
ACCCCTGGGT	GCCGGGAGGG	CAGCCCCTTG	GCCTGAGGCC	CACTATGACC	TGCCCCCTGC	240
AGCTGCACCG	TGATGGTGGC	TTGCCTTGT	GGCTCCCTGG	GCTCTGGTGG	CCTCGAG	297

(2) INFORMATION FOR SEQ ID NO:936:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 337 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

GTTTAATGAA	GAGTAGTCAG	TCTTCTAGAT	TGTTCTTATA	CCACCTCTCA	ACCATTACTC	60
ACACTTCCAG	CGCCCAGGTC	CAAGTCTGAG	CCTGACCTCC	CCTTGGGGAC	CTAGCCTGGA	120
GTCAAGACAA	ATGGATCGGG	CTGCAGAGGG	TTAGAAGCGA	GGGCACCAGC	AGTTTGGGGT	180
GGGGAGCAAG	GGAAGAGAGA	AACTCTTCAG	CGAATCCTTC	TAGTACTAGT	TGAGAGTTTG	240
ACTGTGAATT	AATTTTATGC	CATAAAGAC	CAACCCAGTT	CTGTTTGACT	ATGTAGCATC	300
TTGAAAAGAA	AAATTATAAT	AAAGCCCCAA	ACTCGAG			337

(2) INFORMATION FOR SEQ ID NO:937:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 299 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GAATTCGGCC	TTCATGGCCT	ACATAGTTAT	TCAGATTTAG	GACCAGTAAG	GATAGAACTT	60
TCTCTTATT	ATGAAAAAAA	ATGCTAATAA	TTTTGGGGCA	GTTTTTTCCN	TTAATTATTT	120
TTTTCAATTT	CAAGTTTAAT	TTTATTTTAG	CTGATCTGAT	GTGGTTTCAA	CTAACCCAAG	180
GTCTACCAT	GTTAAAANGC	CGCGGACTC	TACGGCGTTT	TGTAGATCCC	CCCCCCCCAC	240
CCACTGTGAA	GGGGTGCCAT	ACTACCTTAA	ATGCTAATGC	TAGATATGCA	ACCCTCGAG	299

(2) INFORMATION FOR SEQ ID NO:938:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 403 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

```

CTCGAGTGGT GTGTCATTAT AGCGGACAAA GGTCACGATC ACAAAGGTGG TGGCGATGAT      60
TCCCAATATT GCAACAAACA CAGGCACCAC AGCCCAGGGA GAATGCCACT CCAATTTGAT      120
GATGGGGATA AGCTGGCAGC CTGTGCGGTT CATGTTGGGT CTCTGATCCA GAGGGCAAAG      180
TTCACAGGAC AGCTCATCCA CCTGGTAGTT GTAACCTTCA CAGCGTTCAC AGTGCCAGCA      240
GCAAGGGACC CCTTTCACCG TTTTCTTCCT CTCCCCTGGC TTACACGGCA GGCTGCAGAC      300
AGACGCCGGG TGAGTATGTT CTCTATGAGC CCACTGCATG TCTTCCACTT TTAGATGAAG      360
CTGATTGGTC CAGTGCCGA TGACTTTGTA CTCTGTGCTT TTC                          403

```

## (2) INFORMATION FOR SEQ ID NO:939:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

```

GAATTCGGCC TTCATGGCCT AATTCTTTTC TGTCCTTCAC ATGCATGTCA CAGTTCATCT      60
CACATTTCTG TGTAGAGGGC TCCATTTCTC TGCATATGGC ATTACCATTG TGCCTGATGT      120
ATTCCAATTC AGATAACAT AAGCTCCTTT CTGCTGCTTT CCCTGAGACC CCTGGTGTGG      180
ACTTCTCTAA TGTTCTCATA ATATCTATGC ATCTCTCTAT GATTATACCA TGTATACTC      240
TGTGTGGCCT TAGGCTTTGT GAGGAGAGGT TCAGAGTAGG TTTTGCTCTA GAGTGTGGTC      300
CTTACTCCTA AGGTGACCCC TTTCTGGTGT CTCTGCTGGT GTATGGCATT AATGTGATTG      360
CTTCACTCTC GAG                          373

```

## (2) INFORMATION FOR SEQ ID NO:940:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

```

GCAAGCTCTA ACCTAAATCA CAGAGACATG CATGTTTCAT GCATTAACAC TGATTTCGCT      60
CTGTGGCCCA CCAGAGGGGT GGGCTCATGT CCCCTGACTC CTCACATGAG TGCCTCAGCT      120
CTAAGNCCCG TGGAACGGGG GGTAGGGAAG GTTTGCGATC TGGAGCTCAG CAACTGGCTC      180
AGCAACGTTT TCTCCATTTT ATTAGCACTA AACAAGTTTC TTGCTCTCAG GAATTGTGTA      240
GAAAAAAGAA TAACATCACC TGAGACTCCA CATACCAGAT TATAAACTCT TTCTCGAG      298

```

## (2) INFORMATION FOR SEQ ID NO:941:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

GAATTCGGCC	TTTATGGCCT	AGGTTTCCGG	ACACTTGGGA	CACGCGTTTC	CATCCTGGCT	60
CACCTGAAGCC	TCGATCTCCC	AGGCTTTCTT	TGACGGTGTT	CCCTCAAAGA	AAGAGGCCCA	120
AAGCCCTCCC	CCGCAAAAAA	AGCCAGAAAG	GAATGGAGGT	GCCTCCGCAG	AAATCCAGAG	180
CATCTGCAAG	ACATCCTCGA	ATTCTAGACC	TGCCTCGAG			219

## (2) INFORMATION FOR SEQ ID NO:942:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 572 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC	TTTATGGCCT	AAGCAAGATG	GGTCTGAGGA	TACCTGTGAG	AAGTAATTCA	60
ACACATCTTT	CACACATGGG	CCAATTGCT	GGTCTAAGTT	AAATNGGAGT	GACAAGGACA	120
GCTGCTTAA	GAGTGAGTTC	TAAAGCCCCA	GGAATTAGGT	GATGTCTTGA	GCTGGGGTGA	180
AGCAAGNCAA	GTGGGATGGG	GAAGAGATGG	CTGGNTTCTG	CNGGAGTGAG	TTTAAGGGAG	240
GAAGGCAGGG	TTGCCCGGCA	GCCCGCATGT	TCCAGAAGAG	CCCACGAGAG	ATGTCTGTCC	300
CACAGGGCTT	ATAGCACNTN	GCANTCCNTC	AAAGGGCGGT	GTCTCATGTC	CCNTCTGTTA	360
GGCTCTGGGT	GGGCTTTTGT	GACAGCTTTG	ATAATGTTCT	GGAAGAGATG	CTGCTGGGCT	420
TCTGGGCTCC	CGCGACCCCT	TAGAGAAAGT	GGTGCAGCTT	CTCATTGGCT	CTGTCTCTCT	480
CCGAACACGC	CCCTTTTGGG	GCCCTCTGGA	AAGGAAGACA	CTGAGCAACC	AAATAACATA	540
TTTGTGACACT	AATTTCTCTGA	GACCGTCTCG	AG			572

## (2) INFORMATION FOR SEQ ID NO:943:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 412 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

GAATTCGGCC	AAAGAGGCCT	AAGGAAATGT	GTGCTCTTAA	AACAGATTTG	GATTTTATTT	60
ATTTGGGACA	TATAAAAGAG	GAAGGAAGAG	TTGATAAAGA	TTCTTATTTG	ACTCTTCAAA	120
GTCACGTGTC	ACCAGAAATT	CAGAGAATCA	ACATACAAAT	TACAATGGTA	GTTTGTTTTC	180
TGGAAGGCCA	GTGAAATACA	GCTCCTTAAT	TTATAATGAA	ATTTACTTTC	TAACAAATTA	240
AGTCTTTCTA	ATGAGACCAA	CATTGAGAAT	TCAGCCCTTA	CCTCGGGATG	GTCTGAGAAA	300
ACCAAAAGGC	CAACTGTTTT	ATTGCTTTAG	ATCAGTTAGG	TGATGATAAC	TATGAGCATT	360
TATAATAATA	TTTTAAATTG	GCCCTGAGAG	GCTTGAAGAC	ATAGAACTCG	AG	412

## (2) INFORMATION FOR SEQ ID NO:944:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 521 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

GAATTCGGCC	AAAGAGGCCT	ACAAAAA	AAAAA	NNACTTGAAC	TGAGACCTGA	60
AANNGTAAAA	CTANNGNAAC	AAAACCTAGG	GAGAAAGCTT	CTTGACATTG	GCCTGGGCAA	120
AGATTTT	GGATATGGCC	CCATAATGAC	ATAGGACAGG	CAACAAAAA	AAAAATGGAT	180
AAATGGGATT	GCATCAAAC	AAAACCTCTGT	ATAGCAAAGA	AAACAATCAA	CAGAGTGAAG	240
AGACAACCTA	CAGAATGTGA	GAAATATTT	GCAAACCACA	CATTTCATAG	GAAATTAATA	300
TTCAAAATAT	ATAAGGAACT	TATGTAAC	AATAGCAAGA	AAACAAATAA	CCTGATTAAA	360
AAATGAGCAA	AGGTCAGTTG	AGAGAGGAAG	AGAAAAACAA	TATGAGTAAA	AGACTTTAAT	420
AGACCTTCT	CAAAGAAGG	TATGTGCATG	GCTGATCTGT	GCATGAAAAG	GTAATTAACA	480
TCATTAATCA	TCAGAGAAAT	GCAAAATTAAC	ATCATCTCGA	G		521

## (2) INFORMATION FOR SEQ ID NO:945:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

GAATTCGGCC	AAAGAGGCCT	AGGTACACAA	AAGCAAACAG	AAAAACTCTT	AAGTTTTTCT	60
GCAATACTAA	AGAAAGTGAG	ATAAGACTTT	AAAGTTAAAG	ATCTATAGAC	ACTTTAGGCA	120
AAACAGGCTC	ATAAAGCAAT	TAAAAATCA	ACAATTTAGT	AAAAACAGGC	TACATAGTAT	180
TTTGTTTTTA	CGTTTCATT	GTCTATTGAT	CTTTAAATTA	AATTAGACAT	TTCTACTGTT	240
TTCCTGTACT	CTTATACACA	CCTGTTTTCT	CCAATGTTCT	CCTTTAGTAT	GGCTGGTAAT	300
TGTTTTGGTG	ATTGCCACCC	CCTCGAG				327

## (2) INFORMATION FOR SEQ ID NO:946:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 573 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCAAGG	GCTAGGCGAG	TTATTGCAGT	CACGTCCTTA	AGTCAGCCCG	GTCCTCTTCT	60
TTTCCCTCAA	GGTGCCTGTG	TTTCTATTT	CCCCGTCCAG	TCGGTGGCCC	CACCCAGCCC	120
CAGGGTGCTC	CCTTCCCCC	TTTCGGGTTT	CTGCCGTGGAG	GGTGTGGTTT	TCTCTCCAC	180
CTCGGTGCCT	GCCAGTAGAC	TGGAGTTCCC	CGCCACGCTG	TCGGTCCCAT	CTCATCACCT	240
TTCCGCTTTC	ACGCCCCGTAG	CTAGTCTTGG	GACTGGCCCT	GTTATAGCCC	CAACTTATGC	300
GCTCTCTAAC	CTTTCCTGGC	TTACCCGGAG	TCACAGTTCA	GTTCTACTTC	TTTTCAATTC	360
TGTAGGGCAT	TGGTCTCAAT	TGGGACTCAG	TTTCTCTCCA	CACCCGCCGT	TCCTGTAGTC	420
TGGTTATATC	ACAGTTCATT	ATTTAATGTA	GGTTTTTGAG	CGCTTTGTAA	ACGGCAAAGC	480
TCTCTCTGTT	AATAATACAT	ACTCAAAATG	TTATTCCTTC	ATTGGTGCAT	TACAACCTAG	540
TTGTTTGCTT	CTGAATCACT	TTCCCGACTC	GAG			573

## (2) INFORMATION FOR SEQ ID NO:947:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 335 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

GTTGAAGTCA	TTTATTATTT	TATAAATTGA	GAACAACCAC	ACCACCAAAT	GTCACACCTT	60
CTTATAAAGT	GTGAACAAGG	AAGGTCATGT	TTTTGTGGGT	ATTTTGTGTCAG	ACTTAGAGGT	120
TTCAATTCAG	GGCATAGTCA	AAGGCATCAT	CCTCCCAACT	ACCCACTTGA	TTATGTATTT	180
CAGATCCCTC	CGTGGGGGCC	TTCTTCTGAC	AGAGAATTCT	TTGAGGTACG	CAGTAGTGCT	240
TTTGTGAGCA	CAGACTGCTA	ATCTACATCT	TGCTGCGTTC	TGTTTGCTGA	GGTTGGGCTT	300
ATTCATTTAA	CACGTACCAA	CCATTATCAC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

GAATTCGGCC	AAAGAGGCCT	ACGGCCAAAG	AGGCCTAGTC	GGAGGAGGAA	ACATATGTAG	60
GGAACAGCCT	GGGTCTTGTG	AATCCGTTTC	CCAGCTATGA	TGCCTATTTT	CTCAGCAGAA	120
TGAGTGTAGC	ATGTCTCCCA	GGTCTGTTTT	TTATTTGTTT	GAGAGGTGAT	TTCAAGCAGA	180
ATCTCACAGC	TTACTGTTGG	AAATGCTATC	AGTTGTAAAG	ATAGGGAAAA	TCTCTCTTCC	240
ACTACGGTGG	TAGGAAATGA	ATACATATCA	TTTCCAGCT	TCCAGGATGT	CCTGTCATCT	300
TAAGTGTGCG	TCCCAAGGA	CCTACAGATC	ACAGGGCAAC	AGGGGCTGTG	AAAGAGTAGC	360
CCGGGGCTCG	AG					372

(2) INFORMATION FOR SEQ ID NO:949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

CTAGCATTAC	GAATCTCTTA	GGATTTTAA	GATTGTATTT	GATAATACTT	ATATTTTACA	60
GGGCACACTT	TTGGCACACC	TCAGAGCACA	CTGCTGCTAT	TTTGGGTCAT	ATCACTGTAA	120
AATACATAAT	AAGTACTACT	TAACTGTGAC	ATGAAGAATT	GGAATCCCAG	AGGGCAACAT	180
TTGATTCGAC	TAAGATCAGG	CATAAGATAG	AATTTTGTGTC	ATTTTTCCTT	GCAGTTTTAT	240
TGACTTAGTT	TATGAGCTTG	GATAAAATAA	TTTTTTGATG	AATCATGTCA	ATAAAAGGAA	300
AAATAATGTA	ACTACCTCAT	AAGTCTGATA	AAAGGAAGTT	GCTAGTGTTT	TATAGAATTT	360
CTGAAGGTGG	TTAAATCAAG	TATGATTTC	AAATATCAAC	TAGTTCCACT	TTTGTGATTG	420
CAGGATGCTT	CTTATACTAA	AGTTCTCGAG				450

(2) INFORMATION FOR SEQ ID NO:950:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GAATTCGGCC AAAGAGGCCT ACGTAGGCAA AGGTTGACCC AATCAAAGAT AAAAGAAAAT	60
CGACAGCAAA TCGTTCGTGC TCGAAAATAT TATGATGATT ATAGAGTTCA GTTGTGTGCA	120
AAAATGATGA GAATGAGGAC CCGGGAAGAA ATGATATTTA AGAAACTGTT TGAAGAAGGT	180
TAAACATTTC AAAAGCAAAG ATTACGAGAC CTAAGAAACT ATGCCAAAGA AAAGCGAGAT	240
GAACAAAGGA GACGCCACCA GGATGAAC TGACTCCATGG AGAACTACTA TAAGGACCAG	300
TTTTCATTGC TGGCAGAAGC CATATCACAG GAACAACTCG AG	342

(2) INFORMATION FOR SEQ ID NO:951:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GAATTCGGCC AAAGAGGCCT ACCCTGTTTT AATCACATGA CTACCTGTCC CAGTACACGA	60
AAGGGCGCTG GTTGGCATTCTTCTTAATGT ATTTAGTAAA GATTATAAGA CATCCTTTAA	120
GAGTTTAAAT GTCTCTGAAA CAGGCATACA GGCTCTAGTC AAGAATGAAT TAGAGTGAAG	180
GAAAGCTGTG TGACACCTGG CATTCTCTCTC TGTTTCATGGA GCTTCTTTGA GGCTTGAAAT	240
TTGATTTTAC TATCTAGACC TCTCTGGCTA ATACCTATTC TTCAACCACC TCGGTTACTC	300
TGACATAGGA ATTTACTTCT TTTCTTGAG TGGAAAACAC TTTAGAAAAT AATAACAAAC	360
ATTATTATAA ACTAATATAT GTGAGAGTAC TTAGTTGAAA CAAAAGGAA TTTAGTAGA	420
CAGTATTATA TTATCTTTGA AAATCAAGGA GAAGTTTATG CAACTGAAA TGTTCACACA	480
CTGTGCTACT CGAG	494

(2) INFORMATION FOR SEQ ID NO:952:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 522 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

CAAAGAGGCC TAGGGAGTGT CGCTCTGTCA CCCAGGCCGA GATTGCACCC CTGCACTCCA	60
GGCTGGGCAA CAGTACGAGA CTCTGTCCAA AAAAAATAAA AAAGAACAGC CTTTTAGGC	120
CACAGTGACC TGCGCAATGT TTATATGCTT NGACCTACTA ACTTTCTCCT AACTAAATAT	180
TTGATTTTAG GAGAGTGTTC AAATAAATTA CAGTATGTCT ATATGATGAA ATGTTATTTT	240
GCCATTAAAA TTTTGTTCAC AAAGATAATT TTTATTGACA TAAAAATNAC TTTAATGTAA	300
TTTATGTTGA AAAAGCTGAA TACAAGTCIT TATATAGAGT AATATTTGAG CTGTGTTCAA	360
AAATACATAG GAAAAGACTG ATAAATGAA ATATGGCNAA ATGTTAATAG TTTTCCCTGG	420
AATAGGATAA TAGGCAATTT TAAACAGAC TCCTTTAAAA AAACAAACAA ACNAAAAAAA	480
CATAGACTTC TTTATATCTT TTGAGCTCCC CCCNACTCG AG	522

(2) INFORMATION FOR SEQ ID NO:953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 483 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCGGCC AAAGAGGCCT AGTGTGTTAT ACAGTTGTTG CCACTGCTGT TTTCCAAATG	60
TCCGATGTGT GCTATGACTG ACAACTACTT TTCTCTGGGT CTGATCAATT TTGCAGTAGA	120
CCATTTTAGT TCTTACGGCG TCAATAACAA ATGCTTCAAC ATCATCAGCT CCAATCTGAA	180
GTTCTTGCTG CATTGTGTCA AAAGAAATTT CCTTATTTTC TACTGCCATT CCCATAAAAG	240
TAAGTAGTCT CATTTTGGCC ATATTCTGTT CATGTAACAG GCCAAGTGAA TCAATGAAGT	300
CTTTATTATT CTGATAAAAC TTGACATATG ATGCCAATTT AGCACTCACA AAAATGGTTA	360
AAAGATCATG AATAAGCTCG CCTTCCAAA ACTTGACTGG TTTTAAAGTA AGAAGGTGGT	420
CAAAAAGAAA TGCATTGGA TCTTCAATG CTCGTACAAT ACACCTGTGG GCATCAACTC	480
GAG	483

(2) INFORMATION FOR SEQ ID NO:954:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 372 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

GAATTCGGCC TTCATGGCCT AGGTGCCCTC TGTGAAGCCA GTGTTCTCTG CTCCCCGGGT	60
CAGAGGTCAC AGGTCAAGTT CAGTCAGTCC GAAGAATCAT GGGCGGGTGC TCGCTGTCCT	120
CATCCAGGCG CAGGGCGCTG GCCTCGTCCT CCAGGCAGGC GCCACCCACA GCACCCAGGT	180
CGTCTGTGTA GGCTGCAAAG AGACGACGAA GTCACCCCTC AAAGGCTGGG GACACACCAC	240
AGACCCCATG ACACACACTG AGGACTGTGT TTTGGAAACA CTGGTGTATA TTTATAAACT	300
GAAGCCTGTA CTAAGACGTT CTGAATTCTG ATTGCTTTCT AATGAACCTT TTGCAGCCTT	360
AGGCAGCTCG AG	372

(2) INFORMATION FOR SEQ ID NO:955:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 436 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:

GAATTCGGCC TTCATGGCCT ACTATTACCA TTATATATCA CCCATCTGCA ACAAGGTACT	60
GTACAGACAA GTAAGAAGTA TGTTATCTAG TTCCCTTTCC CCCAGAAGGT TGAGGCTCAG	120
GTATAGGGGT AATTCTCCTG TGCAGTCTTT ATTTATGCTG ACTCAGTGAC TTCAACAGGC	180
TTAATCATGT GGTCAAGTTT GTTGCCAGCT GCATAATGCT CCCACATCTG TAGATAGAGC	240
CGCTCTAGTT CCATTGTGTA TTGTTGGTG TTGAACAGAG GGCTAGATAT TCTTTGCTTC	300
CAGACTTTC CACGAACTTT CTTCAGGTAT TCTAGATCAG TTCCCAGCTT CACAGCTATG	360
TCTTCATATT CTTGTCTGTT TTTAGCAATA AGCTCAAGAC AACCTAAGCA AGTGAGCTGG	420
GATGCTGCAA CTCGAG	436

## (2) INFORMATION FOR SEQ ID NO:956:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 331 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:

```

GAATTCGGCC TTCATGGCCT AAGGAGATGG GAGAATGTCC GGGGAGGGGC TGGCAGGAGG      60
GGCCAGCCAA ACTGCACGGA CTTTGCTGGT TAGTGAAGGA TTTTAAGTCC TCTAGTGGAA      120
TTAAGTGATT AGATTTTTCG CTTACAAAGG AAATCTCTCT ATGGAGAACA AACTACCATA      180
TGAAGCTAGC GGCCTAAACC AGGAGAATGT GGGGAAAGAA GAGAGGTGAG GATAACTGGA      240
GGGGTATTAT GTAACAACAG AAAGCATCAC AGTTCAATGA ACAGGGCAAG GTGGGCAAAT      300
GAAGAGGGCA GAGGAGGACT GGGCCCTCGA G                                     331

```

## (2) INFORMATION FOR SEQ ID NO:957:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 424 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:

```

GAATTCGGCC TTCATGGCCT AAGACTGTGA GTTCTGGGGC CAAGAAAAGT TTTGAATTGC      60
TCTCAGAGAG CGATGGGGCC TTGATGGAGC ACCCAGAAGT ATCTCAAGTG AGGAGGAAAA      120
CTGTGGAGTT TAACCTGACG GATATGCCAG AGATCCCCGA AAATCACCTC AAAGAACCTT      180
TGGAACAATC ACCAACCAAC ATACACACTA CACTCAAAGA TCACATGGAT CCTTATTGGG      240
CCTTGAAAAA CAGGTCTGTC CTCCACCTGA ACCAGGGGCA CTGCATTGCC CTGTGCCCCA      300
CCCCAGCTTC CCTTGCTCTG AGCCTACCCT TCCTCCACAA TTTCCTAGGG TTCCATCACT      360
GCCAGAGCAC ACTGGACCTA CGCCAGCAC TGGCTTGGGG TATATACTTG GCCACCTTCT      420
CGAG                                     424

```

## (2) INFORMATION FOR SEQ ID NO:958:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 597 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

```

GAATTCGGCC TTCATGGCCT AGATATGGCC AGGATGCTAT AGCATTGTCA GTGAGGAGAC      60
ATCACAGCTT TCCCAGATCG GGAGGAAAAA TATGGAATGT GTTTTACCGC TGA CTGAACA      120
CAACCAAATG AACTGTCCTG ACAGTAGTTT GCAAACCAGC AGCTAGCAGT TTGTCCAGCC      180
TCTAACATTG TCCAGCACTT TCCAGAGCAA ACTCACTGTT TACAAGAACT CTTGGCCTTA      240
CGAAGTTTAT AACCTCAAGC TTTGTTTATT TAAAATATTC CTGCAAAAGA AAAGTACCCG      300
GCCCCATGACC ATTCGTGACA GGCCCTTTGA ACGGACGATT ACCATGCATA AGGATAGCAC      360
TGGACATGTT GGTTTTATCT TTAAAATGG AAAAATAACA TCCATAGTGA AAGATAGCTC      420

```

TGCAGCCAGA AATGGTCTTC TCACGGAACA TAACATCTGT GAAATCAATG GACAGAATGT	480
CATTGGATTG AAGGACTCTC AAATTGCAGA CATACTGTCA ACATCTGGGA CTGTAGTTAC	540
TATTACAATC ATGCCTGCTT TTATCTTTGA ACATATTATT AAGCGGTGGC ACTCGAG	597

## (2) INFORMATION FOR SEQ ID NO:959:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GAATTCGGCC TTCATGGCCT AGTGTCTTCT TGTCAACTTC ATTCTCTTCT CTGTCTTCT	60
ACGTCTGAGA TCTTTCTGAA CACATTTTTC TAGAGGCTGC TGTCTCCTGC TGTCTGGAGA	120
ATGATCTTTA GAGGGAACGG AAGCTTTCTT CCTGTGCGTG TGTGTCTTCC TGTGTCCTAG	180
CACTTGGGGG TGGAGAGTCT CGGGGCGGGG ACACCAAGTGT CATCAGCGCC TCTGCTGTCG	240
TGCTTCTCTT TTGCATGTTT GGAAAGCCTC AAGCGGGAGG CGGACTCGAG	290

## (2) INFORMATION FOR SEQ ID NO:960:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCGGCC TTCATGGCCT AGTGAGTGAG TAAGACAGGT TGCTCTTTGG AAAACAAGGA	60
AAATCCCTTT ATTAGAACAA GGCATGAAAT TCTGCCACTA GGTGGCGATG CCCTATAACT	120
TTACAACCTA GTGTACATCA CACGAGCACT ATGGAAGATT TCTCCATTCT GCGCCCCACC	180
AACTCCCTCC CCTCCTTCAT TTTTCAGGAT GACAACACCT TAGAGGTTTA TGGCCATCAG	240
GAGAATTAC TACTAAGCTA TATACTGATG TAATGAAATC TAATATATGT TGTGCTCGAG	300

## (2) INFORMATION FOR SEQ ID NO:961:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCGGCC TTCATGGCCT ATTTTCCCTT CAGGATTGTG TGTTGGGGTG GGGGCATACT	60
GGGGATGACA GAGGGAGAAA GAAAGATTTT TATTTTTCCT TCTAATAAAT GTTCATTGAG	120
AAAGTTATAG AATATGGAGA AAATGAAAT TATAACTCTC CTGCGCAGAA ATACTGTTAG	180
CTGTGAGTTT CTTTTCTATA TATGCTTATA TAGTTGAGAT TATGCATGTA TACAGTTCTG	240
CATCTTAGCT TTAATAATAA TGTCACATCT TGATAATTTC CCAGTCATTA AAATTATTTG	300
AAGATATCAT TGATGTATCA CCTTATTTT TATTCTATTT GAATAATACA TCCAAGGTCA	360
CCAAAAGATG ACAGTGAAAT GTATTGTTTG TAATCTACAT TAGCATCAGT AAATATGGAC	420



CATTTAAATT GTGTTAAGTC AACCTCTCTG ATCTTATTTT ATTAAAGTTT AGGATAGGCA 480  
CTACATTGGA TGGGACTCTC GAG 503

## (2) INFORMATION FOR SEQ ID NO:962:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 394 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC TTCATGGCCT AAGCAGCTGC TGCCTGCCAG AGAGGCGCCT TCAGAGACCC 60  
 AGCGCTTACA CAATACCCAC CATGTCCCAG GCTGGTGCTC AGGAAGCCCC TATCAAGAAG 120  
 AAGCGCCCC CTGTGAAGGA GGAGGACCTG AAGGGGGCCC GAGGAAACCT GACCAAGAAC 180  
 CAGGAAATCA AGTCCAAGAC CTACCAGGTC ATGCGAGAGT GTGAGCAAGC TGGCTCGGCC 240  
 GCCCCGTCGG TGTTCAGCCG CACCCGCACA GGTACCGAGA CTGTCTTTGA GAAGCCCAAA 300  
 GCCGGACCCA CCAAGAGTGT CTTCGGCTGA GAAGTGTGCG CCACTCCCTT TGCTGCCCCG 360  
 ATGCTCGGAA ACAGGAGCCT TACCCAGGCT CGAG 394

## (2) INFORMATION FOR SEQ ID NO:963:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 497 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC TTCATGGCCT ACCCTTCATG GCCTAGGAAA CTCACAAAAT GAAATATCCT 60  
 TCTCAACGTC ACTAGAGAGT GGCAGAGTTT AGAGACAAAG CCATCTGATT TTGGAGCCTG 120  
 TGCTCAGCTT TTAGCAGACA CACTGATTTT CAAGAATTGC TAGGATGTTT CTCAGTGCAG 180  
 TTGACCACAG GACTCTCTGG AAAGCCTTCA GGACTGAACT TCCTCCAGAC AGTTTGGGAA 240  
 ACACTGCATG TGTCTATTAT GAAGCCATCA GCTGAGCTCA TCCCCCGTGC ACTCCACAAC 300  
 GCTGAGGCTC TGCACATGGC TCACCACTGC CAGGTGCTGC CAGTCAGCAG TGCCGTGCTG 360  
 TTTCCACAGC AGCCTGCATA CGTCTATATT GCCCAGCCTG TTTCACCTGG CGGGGTCACA 420  
 CAAACCACCC CCTGGTATTG TTAGCACGTC CACATAATGG CATCTCCACA GCTGTGTCAT 480  
 CCAAAAGAAA CCTCGAG 497

## (2) INFORMATION FOR SEQ ID NO:964:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 395 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GAATTCGGCC TACATCTTTT GATGACTCTG ATACCTTCAT TCATTTTCA AAGGAATTTA 60  
 CTGATCATGA GGTGGAAAA TCTGTATTTT TCTTGCTTAT TATGTATTAA TAATCATAAA 120

```

TGTCTAGATT CACCAGAAGT CACCAGAAGG TCTGTCTCAG TGAAGAAAAC TTATAAAGCC      180
ACTTTGTTGC ATTTTGTGTT TCAGTGTAC  AGTTTGAGAT CTGTATATT  GTACACAGCT      240
ATGTGTTTTT CATTGAAATA ATGTACAAAG ACTGATCTTG ATGCTGTGTA TTTTATGAG      300
TTGTCTTAGG CATTCTGAG CTCAGCTTCA GTTGGATGGT GGGTCAGCAC CCTGCGTTTC      360
TGAACATACT AGACTTCAGT TAAAACCTGC TCGAG                                395

```

## (2) INFORMATION FOR SEQ ID NO:965:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

```

GAATTCGGCC TTCATGGCCT ATAGTAAATG CCCACTAGGC ACCCTGGAGT CATTGTGTA      60
GAGTGGCATC TCTATACAAC TGTCGACTA ACTGTGGAG ACACCCTAAT CACCCCAGCC      120
ACAAACAAAT AGAACATTGT ATGTGTGCTG AATCCACAA AGGCCAGACA TGATGCCATG      180
AGACCAAGAA GGAAAAGAAA TAATGTGGAA AGGGTTTGGG GTGGAAAGGT GGGGAACCTG      240
GAGGCGGGCC ACATGGGGCC CCAGAAGCCA TGTGAGGGT TTTGTCTTCA CCAAAGGATC      300
AGTGGGAGAT TAGTGTAGAA CATTAAACAG AGGTGGGGTA TGTGTCATAT TTCCATTAAA      360
AAATTCATCC TGGCCACAGT GTAAAGAATA GATTAGGGAG GAAGCCAATC AGGAAGCAAT      420
TGGAGTAGGC AATGCAAAAG GCAAAGTGAA CTTGGACTAG TGGTCTCGA G              471

```

## (2) INFORMATION FOR SEQ ID NO:966:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 611 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

```

GAATTCGGCC TTCATGGCCT AAGCCAGCTC AGNTGCNTCA GAGATTTTGT GTGTCCTTGC      60
ATACACAACCT TAATTTCTCT AGGATTCAGT CTCCTCGTNT TATTTTAAA ATNATTTTAT      120
TTGTAAATAC CTCATCGTGG ACTCCAAAAG CATGTCCTCT CGTTTAAAA ACTGGCATAA      180
TACCTACCAC AAAGGTGGAT GTGAGAATTA AATAGAGCTT TATACAGAAT TCCCTCAGGC      240
ATTTTAAAGT TTATGTAATA GGGATGTATC TTACAGTTGA TGGGTACATT TAGTGTAGTC      300
CCCCTACCTC CCAAGCTAAT AATGGTGCGT CGTACAATTG ATGGTACCAA ATTGAGGTGA      360
TAATAACATA GAAAGAGTTT AATGCAACGT GAAGTACAAA ATGCATTCAA TAAGTAGCTG      420
CTATCATTTT TTTAAAAATT AAATATGGCT GCTTGTTAAG GCCATATCCC AGGAGGAAAG      480
TGTGGTCTCT GCTGGGAGGT TGGTCTACAT ACAGGAAGCC AGATGTGTGA GATGGCTCTA      540
GATAGGCAGA AGGGGAGAGC TCGTGCCCTC TAGGAACCTA TTAATAGATA TCAAGGGAGG      600
GATAGCTCGA G                                611

```

## (2) INFORMATION FOR SEQ ID NO:967:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC	TTCATGGCCT	AATTTAAGTT	TTTCTAGCAG	ATCGCTCAGG	TTGCTCTTAA	60
CTGGAATGTA	GTGTTTCCAG	GGCTGCAGCT	CATTGTAAAA	ATGTTTCATAG	TAGATGGAAT	120
CCTGCTTCAG	CACAACACTG	TCACCAACTA	GCAAATATGG	CAGGCGATAA	GCTGCTACAG	180
TGCCATCGAT	ATTTATTTGA	TACTTATGCT	TGAAGAAATC	AAAAAATGAA	ATATGTTTCA	240
CAATGGGACC	ATACAGGTTT	TCATCGTGTT	TAAAGAAGAA	AAAGTTGGTG	AAAGCAGCGT	300
CTATGAGTTC	TGGGTGTTTT	CTACTGAGTT	TAACCAGCTC	GAG		343

## (2) INFORMATION FOR SEQ ID NO:968:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 593 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATCGCCT	AGCCAGGANC	TTTCTCGGAC	GCCTTGCCCA	GCGGGCGGCC	60
CGACCCCCTG	CACCATGGAC	CCCGCTCGCC	CCCTGGGGCT	GTGATTCTG	CTGCTTTCCT	120
GACGGAGGCT	GCACTGGGCG	ATGCTGCTCA	GGAGCCAACA	GGAAATAACG	CGGAGATCTG	180
TCTCCTGCCC	CTAGACTACG	GACCTGCGG	GGCCCTACTT	CTCCGTTACT	ACTACGACAG	240
GTACACGCAG	AGCTGCCGCC	AGTTCCTGTA	CGGGGGCTGC	GAGGGCAACG	CCAACAATTT	300
CTACACCTGG	GAGGCTTGCG	ACGATGCTTG	CTGGAGGATA	GAAAAAGTTC	CCAAAGTTTG	360
CCGGCTGCAA	GTGAGTGTGG	ACGACCACTG	TGAGGGGTCC	ACAGAAAAGT	ATTTCTTTAA	420
TCTAAGTTCC	ATGACATGTG	AAAAATTCTT	TTCCGGTGGG	TGTCACCGGA	ACCGGATTGA	480
GAACAGGTTT	CCAGATGAAG	CTACTTGAT	GGGCTTCTGC	GCACCAAAGA	AAATTCATC	540
ATTTTGCTAC	AGTCCAAAAG	ATGAGGGAAT	GTGCTCTGCC	AATCCGACTC	GAG	593

## (2) INFORMATION FOR SEQ ID NO:969:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

GAATTCGGCC	TTCAAGGCCT	AGTTTGTTTG	TTTTCGTTTG	GTAAAGCTT	ATTGCCATGC	60
TGGTCCGGCT	ATGGAGACTG	TCTGGAAGGC	TTGGAATGGT	TTATTGCTTA	TGGTAAAATT	120
TGCCTGATTT	CTTACAGGCA	GCGTTTGGA	ACCTTTTATT	ATATAGTTGT	TTACATACTT	180
ATAAGTCTAT	CATTTAAAGA	CATGTACTGA	AACAAATGTA	TTTGTTCAT	AAGCATCTTC	240
CTGTAATCTA	TTATAAAATT	GAAATTAAAT	ATAGAGAATG	TTTAAACAAT	TTTTAACTC	300
AAAAATTGTC	AATCATTTTT	AATAGTTCTT	TTTTTATAAA	AAGAAAAAGG	AATTTAAGGA	360
CAGGCAGTAG	TCTCTTTTAA	AATTTATTCA	CAAAACCCAT	TAACTCGAG		409

## (2) INFORMATION FOR SEQ ID NO:970:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

```

GAATTCGGCC TTCATGGCCT AAGATTATAT AAGATTATGC CAATAAAACT CATGCCTGAG      60
GAAGTGGTTG CTCCCTTTCT ATGGGTCAGT ATTGGTGCAA GAACTGGAAA CCAGCCCTTG      120
GAGAATAGTT ATACATTGGC CATGATTTTC CACAGCCCTG GAAATGCACA ATTCTATCCT      180
CCTACCAGGA TGATTGTTAA GTTTTAGCTA ACATTGATT ATAAAAGGCC GTAAGTATGA      240
GTATCTCTGA GATAATTTGT GTATTGGAAA GAGGTGTGTA ATAGCACTTT TTTAAAAAAA      300
CCTAGGTGTG AAGGAATTAC AAGTCCAGAA GGCTCAAAAT CTATAGTGGA AGGAATCATA      360
GAGGAAGCTC GAG                                     373

```

(2) INFORMATION FOR SEQ ID NO:971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 656 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

```

GTGGAAGTCC TGACCTCAGG TGATCCGCCC ACCTTGGCCT CCCAAAGTGC TGGGATTACA      60
GGCGTGAGCC ACCACGCCCC GCCTATCTCT TGTTTTTAAA TCAGTCTAGG GTGCCAAGC      120
ATCAGGGTTC CCGGCCTGCA AGAAAGGGAG ATTCCTGTTC ATGTTAAAGT GTCATATTTA      180
TGAAAGTCCC CTTTTGGAA TCTTTGAGGT TGTCTGTACT ATAGGACTGG GGAAATGCAA      240
GTGAGTCTAA GAAGAAACCC AGATGTGTCC TACCCTGGCT GGCAGTAGTG AGAAGGGAGG      300
AAGTTCTTCC TTGGACACTA GTACTATTGG AAAGTTCCTT ATGTCTGGTT CACTGATGAA      360
GCTTGAGGAT AGAATTGGTG AGGAGGGAGG GGAGAACAGG TCACAGCTGG AGGGGAGCCT      420
GGGCCCTATA GGGTGTGAGG CAGAGCAGAG TGGCAGATAG GACATGTGGA CGGTGGGGAA      480
AATATTCTTC ATGGGACAGA AGATACCTGG CACATGTACC CACAACCTGT ACACAGATGA      540
TCTGTACTGG ACACACGTGG AGATATGGCC ATGCCACGCA TGTGCAAACA GAGGTGTACA      600
CACAGGAGTG CAGTGATACA GGACACAGAT AAACAGAATG TACACAGCTT CTCGAG      656

```

(2) INFORMATION FOR SEQ ID NO:972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

```

GCAGGAATAG AGTTGGAGCG GTGCCAGCAG CAGGCGAACG AGGTGACGGA AATTATGCGT      60
AACAACTTCG GCAAGGTCTT GGAGCGTGGT GTGAAGCTGG CCGAACTGCA GCAGCGTTCA      120
GACCAACTCC TGGATATGAG CTCAACCTTC AACAAAGACTA CACAGAACCT GGCCAGAGAG      180
AAGTGCTGGG AGAACATCCG TTACCGGATC TCGTGGGGGC TGGTGGTGGT TGGTGTCTCTG      240
CTCATCATCC TGATTGTGCT GCTGGTCGTC TTTCTCCCTC AGAGCAGTGA CAGCAGTAGT      300
GCCCCACGGG TCCTCGAG                                     318

```

(2) INFORMATION FOR SEQ ID NO:973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

```

GAAAAATAC AAAAATTAGC CGGGTGTGGC GACGTGCGCC TGTAGTCCCG GCTATTCAGG      60
AGACTGAGGC AGGAGAATCG TTTGAACCTG GGAGGTGGTG GTTGCACTGA GCCAAGATTG      120
CGCCATTGCA CTCCAGCCTG G3CAACAGGG TGAGANTCTG TCTCCAAAAA AAAAAAAAAA      180
AAAAGCTGGA TTACAGGCGT GAACCACCGC ACCCAGCCAA TTCATAGGTG TTTTAAGTGT      240
GACACTTGGA TGGTTAAGT CTGATAGAAC TTTTACATTT ATTATACATT TAAATATATA      300
CCAGGGGCTC GAG                                     313

```

(2) INFORMATION FOR SEQ ID NO:974:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 372 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

```

GAATTCGGCC TTCATGGCCT ATTCTTCGCA GATTATGAAG ACTACATTAA ATGCCAGGAG      60
AAAGTCAGCG CCTTGTACAA GAACCCAAGA GAGTGGACGC GGATGGTGAT CCGGAACATA      120
GCCACCTCTG GCAAGTTCTC CAGTGACCGC ACCATTGCCC AGTATGCCCG GGAGATNTGG      180
GGTGTGGAGC CTTCCTGCCA GCGCCTGCCA GCGCCGGATG AGGCCATCTG AGCCTCCAGA      240
CCAGACCCCA AACCAGCCCT TGAGTCTGTC AACTCTCTT GGGCCAGCCC CAGCACCTCA      300
TGCAGAGGGT GGGGTACTGG AGTTAGATCT CTAAGCCCCT CCTGGAACCC TCATTTTCCC      360
CACGTGCTCG AG                                     372

```

(2) INFORMATION FOR SEQ ID NO:975:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 449 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

```

GAATTCGGCC TTCATGGCCT AAAGGATTG ATTGAGAGTG ACATAGCTGC TCTCCATCAC      60
TTTTACTCCA AGCATCTCGA ATTCCTTGAC AATGATAGCC TCGTAGTACT CTTTGACACG      120
GTAACTGTA ATGGCTTCAC AATTGAAGAT GAAGAACTTT CTCAATTGGG ATCAGCGATA      180
TTTCTGATG TTGCATTGAT GAATCATAGC TGTTGCCCCA ATGTCATTGT GACCTACAAA      240
GGGACCCTGG CAGAAGTCAG AGCTGTACAG GAAATCAAGC CGGGAGAGGA GGTTTTACC      300
AGCTATATTG ATCTCCTGTA CCAACGGAA GATAGAAATG ACCGGTTAAG AGATTCTTAT      360
TTCTTTACCT GTGAGTGCCA GGAGTGTAAC ACCAAGGACA AGGATAAGGC CAAGGTGGAA      420
ATCCGGAAGC TCAGCGATCC CCGCTCGAG                                     449

```

(2) INFORMATION FOR SEQ ID NO:976:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 154 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

```
GAATTCGGCC TTCATGGCCT ATAGTGTCTT CCTNGGCGCT GCGACAGCCA ATGTAATGGC    60
CTTTCTGTTT CTCATAAGCA GTTTGTGACA GATAATCACT GGCAATATCC CTGGAAGCCT    120
TGGCATGCTG GATCCCAATG GCATCAAACG CGAG                                154
```

(2) INFORMATION FOR SEQ ID NO:977:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 485 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

```
GAATTCGGCC TTCATGGCCT AGAAGAAATC TCTCTCCAT TCCTGAAAAC AATTTTAGTC    60
CATTCCTCTT CATTAACTTA AGTATAAAAC TACTAATATC TTTCAAGTGC CAGAAGTTCC    120
TCAAGAAGCC GCAGAAAAAG AAATTCCTCGT GGCTCCACCC AAAAAACCAG AAGCTCCGAT    180
TGTCCTCAGG AACTTTTAGC CCTGACTTCA TTCTGCAGAA GAGATATCTC CTCTCCTACT    240
GTAAACAATT TTAGCCCAT TCTCTTCATT AACTTAAGTC TAAAACTACT AATATCTTTC    300
AAGTGCCTGA AGCTCAAGAA GTTGTCCTCAG AAAAGAAAGT TCCTAAGGCT CCTCCACAA    360
AACCAGAAGC CCCACCTGCC ACAGGTATTT TTTACCCCTG TCCTTTTCTC GCAGAAGAAA    420
TATCTCTTCT GATCTTAGAA ATATTTTACT CCATTTGTCT CATTAACTTA AGTGA AAAAC    480
TCGAG                                485
```

(2) INFORMATION FOR SEQ ID NO:978:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 322 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

```
GAATTCGGCC TTCATGGCCT AGAAGATTC CTACGTGGGC GACGAGGCTC AGAGCAAGAG    60
AGGTATCCTG ACCCTGAAGT ACCCTATCGA GCACGGCATC ATCACCACCT GGGATGACAT    120
GGAGAAGATC TGGCACCACA CCTTCTACAA CGAGCTTCGC GTGGCTCCCG AGGAGCACCC    180
CACCTGCTC ACCGAGGCC CCCTCAATCC CAAGGCCAAC CGCGAGAAGA TGACCCACCA    240
ATCACCTAGG CCAATGAAGC CGAATTCGCG CTTTCATGGC TAGCGCGACC GGCAGGGGAG    300
GAAGAAGCGC GAAAAGCTCG AG                                322
```

(2) INFORMATION FOR SEQ ID NO:979:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 499 base pairs
  - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

```
GAATTCGGCC TTCATGGCCT AGCCGCATCT TCTTTTGCCT CGCCAGCCGA GCCACATCGC      60
TCAGACACCA TGGGGAAGGT GAAGGTCGGA GTCAACGGAT TTGGTCGTAT TGGGCGCCTG      120
GTCACCAGGG CTGCTTTTAA CTCTGGTAAA GTGGATATTG TTGCCATCAA TGACCCCTTC      180
ATTGACCTCA ACTACATGGT TTACATGTTT CAATATGATT CCACCCATGG CAAATTCCAT      240
GGCACCGTCA AGGCTGAGAA CGGGAAGCTT GTCATCAATG GAAATCCCAT CACCATCTTC      300
CAGGAGCGAG ATCCCTCCAA AATCAAGTGG GCGATGCTG GCGCTGAGTA CGTCGTGGAG      360
TCCACTGGCG TCTTCACCAC CATGGAGAAG GCTGGGGCTC ATTTGCAGGG GGGAGCCAAA      420
AGGGTCATCA TCTCTGCCCC CTCTGCTGAT GCCCCCATGT TCCTCATGGG TGTGAACCAT      480
GAGAAGTATG ACAACAGCG
```

(2) INFORMATION FOR SEQ ID NO:980:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 333 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

```
GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT ACTTGCCCTCC      60
TTTGCTGTTC TAGGAACAAT TCCATGGGAG GGTCTATTCT GGATTAGGAA TTCTTTCTTG      120
AGTAATTTTT ATTACCTTTT AATTGTGTCC ATTTCTTTGG GAAATAGCAA GCTCTCCCTG      180
CTCCCGCCAA TCTCTCCTCT TACTTTTGG ACCAGTTCTT GTACCTCTTA GCTCACCTCA      240
TTCAGTGAAA ATTGACAAAA GAGACGTGAG TTTCTGTACC TGTGAGACAG CTTATTTTGG      300
TGTCTTTATG GTTCTAAGC CAAAATCTC GAG
```

(2) INFORMATION FOR SEQ ID NO:981:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 91 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

```
GAATTCGGCC TTCATGGCCT ATCGAGTAAT CCTGATGTTT TCACCTTCTC TAATCACTTC      60
TTCCTATTTT TGTCCAGTGG CTTTCTCGA G
```

(2) INFORMATION FOR SEQ ID NO:982:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 351 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

GGCCGCTCGT	GGCTGCGTTC	CCGCTGATGC	TTGTGCCTGC	AGAGCCTCTC	CAGGCTGCTG	60
GTGGGGGAGC	ACTCCCTTCC	CCGAGGTCTG	GACGCTGATC	TCCTTTTCTT	CTTCTTCCTA	120
CTCTCATAGT	GCTCATAGGA	AGAGCTGCCA	GGGCTCCCG	ACCGCGACCG	GGACGTCCTC	180
CGGCTGTGGC	CCCAGGGGCC	CCGCTGTGTC	TCCTGTCTCT	TGTCCTTGGC	TTTCTTCCTC	240
TTAGCTCGCT	CTCGGCTGCT	GGAGCGGTCA	CTGGAGGACC	GCCGGCTCTT	GGCCTTGGAC	300
CGCTGCCTCC	TGGGGCGCTC	CTACCCACT	GATGGTGACG	CCGACCTCGA	G	351

(2) INFORMATION FOR SEQ ID NO:983:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

GAATTCGGCC	TTCATGGCCT	ACACAAATAT	TGCTGTTCCA	TGTTCTCCAC	TTTCATTTTC	60
CACTACAAAT	GAAAAGCAAT	TTTTGAGACT	GAATCTGTTG	CTATTTTAAA	GGTTATTGTG	120
GGAAACTGAG	CTAAAGGAGT	TAGCATCTTT	ATTTTGTAT	CAAAAATAAA	GGTTATTTTG	180
AAATTATTAG	GATTTTACAC	CAATCTGAA	ATCTGTTGCT	TTGTAAACA	AAATGTTTGA	240
TCTTAGTGAT	CCCCCTACTA	CTACCACCAA	TTCACTTCAC	AAAGTCAGTT	ATGAGTCTAC	300
CAGACTTTGT	TCTGAAAAAT	AGAAACAAAA	CACCTGATTA	AGCTCTGAG	TATGGCATAG	360
GAATTTTSTA	GAAGAATGCA	TTCAAGGATT	CTTTTCCTTT	CCTTCAGTGT	CATTAATGTT	420
AAAAGAGCAG	CCACTGTTTT	GTTGAAACAA	ACAGCTTAAC	TTCAGAAATA	AGAACTAGCA	480
CACTCGAG						488

(2) INFORMATION FOR SEQ ID NO:984:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

GAATTCGGCC	TTCATGGCCT	ACCTCCTGGC	TCAGCAGGCT	CCCTCCTTTT	ACCAAGACTG	60
CTGGGACGTT	GAACTCCGGT	GTCTGATCAT	CTCACCTACT	CTCCTCCTAA	CTCCCAACTG	120
AAATCCATCT	CCTCTCTTCC	TCCCAACAT	CCATCTCTTT	CCCAACATGC	CTTTGCACCT	180
AGAGCAGGTG	AAGAAAGCCC	ATGACTAAAA	CTAAAGACTC	AGAATGAAAC	AAAAGGTGTG	240
ACAAGTTATT	TGTGGGGAAG	GTTTTCAGAT	ATGTTCCAAG	AGAAAATAAG	GTAACAACAC	300
CTTGTTTCATC	AGACCAACAG	TGCTGGAAAG	GGCTCGAG			338

(2) INFORMATION FOR SEQ ID NO:985:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

```

GAATTCGGCC TTCATGGCCT ACCTGAATG GGTGGCGAGT TCCCTGTGCA GGACCTGAAG      60
ACTGGTGAGG GTGGNTTGCT GACAGTGACC CTGGAAGGGA TCAACCTCAA ATTCATGCAC      120
AATCAGTGTT ACCTTTTATC TCTCAGTGGA CATTCTTAA GCTAATTCCT TTCTGAGGCC      180
AGCGCATCAT CCCAGGAGCG GAAGGTTTTC ATAGAGCTGA ATCACATTAA AAAGTGCAAT      240
ACAGTTGAG GCGTCTTNG TCCTGGAGGA ATTTGGTAAT TACACTATT TGCTCTTAGG      300
TCTGGACTCA CATGGCAGTA ACTCAAACCT CGGAGCTCCA GAGGAGGGTC TAGGGGCAGG      360
GAGAAGAAGA ACCTCTGTAG AGAAGTCTGG AGGAGCAGGA GTGACAAGGA AGAAAAGGGA      420
CCCCTGAGAT GAGAGCCGGG ATGTGGAAGG GAAAGATAGA TAATGGATCG CAGAAGAGCA      480
AATGGGGCCT CNGGTGGTAC TCGAG                                           505

```

(2) INFORMATION FOR SEQ ID NO:986:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

```

GAATTCGGCC TTCATGGCCT ACACCTTCAC ACCTGTCTT ACCTCCATTC TCACTTCCAC      60
TGCTTCACT AACTCCACCA TCATCACTTC AATCTTCCCT TCCATTCTCA CTCTCTTCTC      120
ACTCACTGTC CCTCTTTCAC CTCCATCCTC ATCTCTGTCC TCCCGTCTAT TCTCCTCTCC      180
AACCTCACTT CTGTCTCTCC CTTCCTCTG CTCTCCATCC TCACCTCCAT CCTCACCTTC      240
AACCTCACCT TTATCTCAC CTCAACCTC ACCTTTATCC TCACCACTCG AG                292

```

(2) INFORMATION FOR SEQ ID NO:987:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

```

CTCGAGTATC CACTTGCCCTC GGCCTCCCAA GGTGCTGGGA TTACAAGCAT GAGCCACCAT      60
GCACGGCTGT AGATGTAAAT TTTGGAAAGA GGAAGGCATC AAATTAGGGG TGGGGGGATG      120
GAGGTACATC CAGCTTAGCC TTCAGACCTT AATGGAAATG CTTTCTAAAC TAGCGATCCC      180
AGAGCAGTTG ACTCTCTGA AATAAACAG GATCTGAGTA GGCCATGAAG GCCGAATTC        239

```

(2) INFORMATION FOR SEQ ID NO:988:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

```

GGCAGACTGC AATACCTGCG TGGAAATAGA AGACAGAAAG GTTCAAGAC AACAGATGAA      60
TTGTGAAAGA GAGCAGCTAA GGGGTAATCA GGAAGCAGCC GCTGCCCCCTG ACACAATGGC      120
TCAGCCTTAC GCTTCGGGCC AGTTTGCTCC CCCGCAGAAC GGTATCCCCG CGGAATACAC      180
GGCCCCCTCAT CCCACCCCG CGCCAGAGTA CACAGGCCAG ACCACGGTTC CCGAGCACAC      240
ATTAAACCTG TACCCTCCCG CCCAGACGCA CTCCGAGCAG AGCCCGGCGG ACACGAGCGC      300
TCAGACCGTC TCTGGCACCG CCACACAGAC AGATGACGCA GCACCGACGG ATGGCCAGCC      360
CCAGACACAA CCTTCTGAAA ACACGGGGCT CGAG                                  394

```

## (2) INFORMATION FOR SEQ ID NO:989:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

```

GAATTCGGCC TTCATGGCCT ACTTCCGGGC TTTGACTCAA TTCATGGGAA ACAGGAAAAG      60
CAAACTAGT TGATCTTGCT ACTAAGCGCG ACTGAAGTTT CTTGTCTTCA TTGCTAAACA      120
ACTTCCAAAT CACTTTGACT CTTTGACCAT ATTCATGTCT ATTTCCCAT TAAAGCATCAC      180
AAAATAATGA AGGAATTCTT AGGAAGAGCC TCAAGATGCC CATGTGGCGT CTGTGTGGGC      240
TGCCTCGTCT GGTAGTTTCT GGACCCACTG GGCCATTTGA AGGGCAAAGA GAAAGCCCCA      300
GGTCTCATGG CAGGAGACAA GACTTCCACA GTGGTGAGCC AGTAAGGAAC AGGGCACGTA      360
CTCGAG                                  366

```

## (2) INFORMATION FOR SEQ ID NO:990:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 364 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

```

GAATTCGGCC TTCATGGCCT ACATGTTTAT TATGAAGTTA TTAGTAATAC TTTTGTTTTC      60
TGGACTTATA ACTGGTTTTA GAAGTGACTC TTCCTCTAGT TTGCCACCTA AGTTACTACT      120
AGTATCCTTT GATGGCTTCA GAGCTGATTA TCTGAAGAAC TATGAATTTC CTCATCTCCA      180
GAATTTTATC AAAGAAGGTG TTTTGGTAGA GCATGTTAAA AATGTTTTTA TCACAAAAAC      240
ATTTCCAAAC CACTACAGTA TTGTGACAGG CTTGTATGAA GAAAGCCATG GCATTGTGGC      300
TAATTCCATG TATGATGCAG TCACAAAGAA ACATTTTCT GACTCTAATG ACAAGGAGCT      360
CGAG                                  364

```

## (2) INFORMATION FOR SEQ ID NO:991:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

GAATTCGGCC	TTCATGGCGG	GGAAGAAGAC	AAGAAAATTA	ATGAAGAACT	GGAGTCTCAA	60
TATCAGCAAA	GTATGGACAG	TAAATTATCA	GGAAGATATC	GGCGACATTG	TGGACTTGGC	120
TTCAGTGAGG	TAGAATACCA	TGATGGAGAA	GGTGATGTGG	CTGGAGATGA	TGATGATGAC	180
GATGATGATT	CACCTGATCC	TGAAAGTCCA	GATGATTCTG	AAAGCGATTG	AGAGTCAGAG	240
AAAGAAGAAT	CTGCTGAAGA	ACTCCAAGCT	GCTGAGCACC	CTGATGAAGT	GGAGGTCTCG	300
AG						302

## (2) INFORMATION FOR SEQ ID NO:992:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

GAATTCGGCC	TTCATGGCCT	AGGTGCAGCA	GGTCCTCTGG	GAAGTGTGCG	ACAAAGGAGT	60
CGCCCACTGG	AAGGTTCTGG	GCAGGCGAGA	TGCCAGAGG	TGATCCCTGC	CCGCCCCCTCC	120
CACCTCCCTT	CCCACACAGC	CCATGGAGGT	GTTTGTGGAC	GACGAGACCA	AGCTCACGCT	180
GCACGGCCTG	CAGCAGTACT	ACGTCAAAC	CAAAGACAGT	GAGAAGAACC	GCAAGCTCTT	240
TGATCTCTTG	GATGTGCTGG	AGTTTAACCA	GGTGATAATC	TTCGTCAAGT	CAGTGCAGCG	300
CTGCATGGCC	CTGGCCCAGC	TCCTCGTGG	GCAGAACTTC	CCGGCCATCG	CCATCCACCG	360
GGGCATGGCC	CAGGAGGAGC	GGTGAGTNCG	AACCGCCCGC	CAAGGCTGCA	GGGNGCACCA	420
CCAGGAGCCC	AGTGTCTGAC	GGCCTCCACT	TGTTTCTCCT	GCACCCCNCC	CCATCACGCT	480
CGAG						484

## (2) INFORMATION FOR SEQ ID NO:993:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 186 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

GAATTCGGCC	TTCATGGCCT	AAAGGAATTT	ATCTATTTAA	TCATTGAATG	TATTGAACAT	60
TCATTGTGTT	ATAATTTTGT	TTTGTATTG	AAAATGTCTG	TAAGATTTAT	AGTGAATGTC	120
CCTTTTCTAT	TCCTGACATT	GTTAATTGTT	GTTCTCTCTC	CCTCCATCCC	TCTCTCACAT	180
CTCGAG						186

## (2) INFORMATION FOR SEQ ID NO:994:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:

GAATTCGGCC	TTCATGGCCT	AGTGTTTTCA	TAAAGGGGTT	GAGGCCACCA	GTACTGCAGC	60
GAATTTCTT	TTCTTCTCCC	TCCTCCTTCC	TTCTCTGAGC	TTGCTTTTAG	GGAAGGTTAA	120
TCCTACAGGC	TACCTATGTT	TCTCTCCACC	TTACTAAAAT	CTAAATAATG	ATAGAAATTT	180
TAAGTTTTTA	AATTGAGTAG	TTCTGAGTAA	TCCTAGAAATA	TTTTTCCAAA	TTAAATAATC	240
CTTTATTATT	TGCAAGTTGG	GCCAAATTTT	TTTTTTTTTG	GAGACGGACT	CTTAACAATC	300
TAAGATTGTT	TCAACAGGAC	TTCTTATTTC	CCATTCCCTC	GAG		343

## (2) INFORMATION FOR SEQ ID NO:995:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:

ATCTTTAACA	GAATTATTAT	TATTTAATAT	AGAAGCACAA	GCAGGGGAAA	AATACGTCAT	60
CAAAATTTTC	AAGTAGTCAA	CTCATTATTG	GAGCCATTTT	ATTTTATAAT	TTTATTATTC	120
AGCTGGTTCA	GAATTCAAAA	GGGCATGTAA	TGAAGTCGCT	ATCCTGCTTC	TGTTTCCCAG	180
CTATCCAGCT	TCCCTCCCTG	GAGGCAAACA	GTGTCATTGG	TTTTCAATAT	ATCCTTCCAG	240
ATGTATGTTA	TCGTAACCTC	TCGAG				265

## (2) INFORMATION FOR SEQ ID NO:996:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 77 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:

GATTCGGCTT	CATGGCCTAC	AGCAGACACC	CTCCTGCCCA	CACCTACTTG	TCCGCGCGGT	60
CTGAGGTTTG	CTTCGAG					77

## (2) INFORMATION FOR SEQ ID NO:997:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

GAATTCGGCT	TCATGTCGCT	CTTCCTGCAG	GTCAACATGT	ACAGCAGCGT	CTTCTTCCTC	60
ACCTGGATGA	GCTTCGACCG	CTACATCGCC	CTGGCCAGGG	CCATGCGCTG	CAGCCTGTTC	120
CGCACCAAGC	ACCACGCCCG	GCTGAGCTGT	GGCCTCATCT	GGATGGCATC	CGTGTGAGCC	180
ACGCTGGTGC	CCTTCACCGC	CGTGACCTG	CAGCACACCG	ACGAGGCCTG	CTTCTGTTTC	240
GCGGATGTCC	GGGAGGTGCA	GTGGCTCGAG				270

## (2) INFORMATION FOR SEQ ID NO:998:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 264 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

```
GAATTCTAGA CCTGCCCCCA GGCCACAGTC ACACCCCCCA GGAAGGAAGA GAGAATGGAT      60
TCTGCAAGAC CATGTCTACA CAGACAACAC CATCTTCTGA ATGACAGAGG ATCAGAAGAG      120
CCACCTGGCA GCAAAGGTTT TGTCACTCTA AGTGATCTTC CAGGGTTTTT AGGTGATCTG      180
GCCTCTGAAG AAGATAGTAT TGAAAAAGAT AAAGAAGAAG CTGCAATATC TAGAGAACTT      240
TCTGAGATCA CTCACAAACT CGAG                                         264
```

## (2) INFORMATION FOR SEQ ID NO:999:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 241 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

```
GAATTCGGCT TCATGGCCTA GGCGATTGTA ACTGCCTATG AGAATAGCTC TCAGCATGAT      60
CCCAGTTCAA ATAACGCTAT GCTTGGGGTT CATGCATCAG CTTCAGCGAT CATCCAGTAT      120
GGAAAAATCG CCCGAAACAG AGGACTGGTC AATGTAGCTC TGGATATATT AAGTCGGATT      180
CATACTATTC CAACTGTTCC TATCGTGGAT TGCTCCAGA AGATTCGACA GCGTACTCGA      240
G                                         241
```

## (2) INFORMATION FOR SEQ ID NO:1000:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 295 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

```
GAATTCGGCC TTCATGGCCT AGAATTGAAT TTAGACTTTA CAGAGTTACT GGTTCGTAAA      60
TCTTTGAGTT GTTTAAATTT TAATGTTAGA GTTTTACTGT TTGATCAGCA CATTTTTTTT      120
CTCTTTGTC TATAGGCCCC AAATGTTTGA GACGGCGATT AAGGAGAGCA CCTCCTCTAA      180
GAGCCCTCCC AGAAAAATAA ATTATCACC CAATGTTAAT ACTACTGCAT CAGGTGTTGA      240
AGACCTTAAC ATCATTCAGG TGACAAITCC AGATGATGAT AATGAAACAC TCGAG      295
```

## (2) INFORMATION FOR SEQ ID NO:1001:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 248 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

GAATTCGGCC TTCATGGCCT AGATATTTAG AAATTTTGTG TATTATATGG AAAAAGAAAA	60
AAAGCTTAAG TCTGTAGTCT TTATGATCCT AAAAGGGAAA ATTGCCTTGG TAACTTTCAG	120
ATTCCTGTGG AATTGTGAAT TCATACTAAG CTTTCTGTGC AGTCTCACCA TTGCAATCAC	180
TGAGGATGAA ACTGACTTTT GTCTTTTGGG GAAAAAAAC TGTACTGCTT GTTCAAGAGG	240
AGCTCGAG	248

(2) INFORMATION FOR SEQ ID NO:1002:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 331 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

GAATTCGGCC TTCATGGAGT CAGCCTTCCA GTCCTCATCT CAGAAATTGA CTAGCCAGAA	60
GGAACAGAAA AACTTAGAGT CTTCAACAGG CTTTCAGATT CCATCTCAGG AGTTAGCTAG	120
CCAGATAGAT CCTCAGAAAG ACATAGAGCC TAGAACACG TATCAGATTG AGAACTTTGC	180
ACAAGCGTTT GGTTCCTCAGT TTAAGTCGGG CAGCAGGGTG CCAATGACCT TTATCACTAA	240
CTCTAATGGA GAAGTGGACC ATAGAGTAAG GACTTCAGTG TCAGATTCTT CAGGGTATAC	300
AAATATGATG TCTGATGTAA GTGAGCTCGA G	331

(2) INFORMATION FOR SEQ ID NO:1003:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 248 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

GAATTCGGCC TTCATGGCCT ACAGTATTGG ACTTTCAGAA GCTGAACAGA TGATGGGTGA	60
GCAAACTGGT TTAGCAGACC CAAGAGAGCT GAATCCTAAG CCAGCAAATA GAGAAATCCA	120
AGATTCAGCC CAAATTATGC TTTAGAATTC CTCAAAGGCT CAGAAACTGG CTGCACTAGT	180
TCCCCGACA GGAAGCATGG ATTGAGGAGG TACCAAACCC ACTCCCCACC AAAAACCCAA	240
AACTCGAG	248

(2) INFORMATION FOR SEQ ID NO:1004:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 281 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

```

GAATTCGGCC TTCATGNCCT GGNGAAGAGN AACAAGAGAA CAAAAAAAAA ANAAGTCGAG      60
AGTCAGTAAT TTTCTTACTT AATATTGNGG GGATNTTACT TNATACATAA AGTTANTGAA      120
ACTAGAAATA GTGGTTTAAT ATATTACTTN TAATTCAAAA ATTAACCTAT ATTTACAGAT      180
GCTCTACACA GTTCTTTTGT GAATCCACCT ATGGTTTAT TTNATTAAT TTTTNTTNC      240
ANAGCNATGA AATGTTGCTT TGTGGNGCCA GCGCACTCGA G      281

```

## (2) INFORMATION FOR SEQ ID NO:1005:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 290 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

```

GAATTCGGCC TTCATGGCCT ACATAAACCA TCACATTIAA TCTGGCAGCT GCCCTGTTTT      60
TGAGGTTTTTC TTTGTATTTA TCTTCTTTG GTAAATGAAA GCTCTCATCT TTGTTTACAG      120
GCCAGAAAAA CTGAAAAAGA CACAGGCTCT TCCACTTACT GGATGTTTGA CAAATGATA      180
TTTTGGGGCC AAAACATTGG CATTACTGGT AAACCTGGTA GAGATTCACT AACTCAGACT      240
TTATTTTCTG TCTCTGAAA AAATAATCTG CATTAACATG ATGACTCGAG      290

```

## (2) INFORMATION FOR SEQ ID NO:1006:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

```

GAATTCGGCC TTCATGGCCT AAATTTTCAC ATATATGTAT ACTTAATTTT CAGCAATTAT      60
GACACAATAA AAAGAATATG CAAATTTATT GTTGTTCAG AAGGTTTTC AGGACTGGGA      120
ACGCTTTAGT GTCATCAACA GTAAACCTCA GATACTGTTT TGCACAGTTC AGAAGTACCA      180
TACCAGGTAT TGTGAGTGGC AAGAACGCCA GGGGACAGAG ATGCTTCTGG TAGATGAGGG      240
CCAGAGAAAC CAGCTCTCCT CCAATTTGAC AGCAATTTCT CACTGTGGCC ATTTGGCCTC      300
CATTATGTTT TGAGAGGAAC GCTCGAG      327

```

## (2) INFORMATION FOR SEQ ID NO:1007:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 248 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

```

GAATTCGGCC TTCATGGCCT ACAAAAAAAT ATAGTGTTTT ATGCCACAGA GAATCAAGTT      60

```

```

GCATTGTGTA TACTAAATGG TCAAGCATTT TCAAGAACAT GACAAAATAA AAACATACAA      120
ATTTATATCT CAAAAGGAAA GTATCTTCTT TCATGTCAGA TCATCAGCAC AGAAGCCCTC      180
GATGCATGCA AAGGCAAGCA CAGGCTCTGC AGATGAGATG TGAAGAAGCA ATTAGGGAAA      240
TTCTCGAG                                         248

```

## (2) INFORMATION FOR SEQ ID NO:1008:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 460 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

```

GAATTCGGCC TTCATGCCTA CATCAAACCC TTTTCTTGTA GCAGCACAGG ATTCTGAGAC      60
AGATTATGTC ACAACAGATA ATTTAACAAA GGTGACTGAG GAAGTCGTGG CAAACATGCC      120
TGAAGGCCTG ACTCCAGATT TAGTACAGGA AGCATGTGAA AGTGAATTGA ATGAAGTTAC      180
TGGTACAAAG ATTGCTTATG AAACAAAAT GGACTTGGTT CAAACATCAG AAGTTATGCA      240
AGAGTCACTC TATCCTGCAG CACAGCTTTG CCCATCATTT GAAGAGTCAG AAGCTACTCC      300
TTCACCAAGT TTGCCTGACA TTGTTATGGA AGCACCATTG AATTCTGCAG TTCCTAGTGC      360
TGGTGCTTCC GTGATACAGC CCAGCTCATC ACCATTAGAA GCTTCTTCAG TTAATTATGA      420
AAGCATAAAA CATGAGCCTG AAAACCCCC AGAACTCGAG                                         460

```

## (2) INFORMATION FOR SEQ ID NO:1009:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 241 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

```

GAATTCGGCC TTCATGGCCT ACGACAAGTT TTAAATTTA CTCTTGAGTA TGGTCCAGT      60
GATTTACCAG AAAAACCAAG AAGACAGGCA CAAAAAGCA AACGGCATTT GGCAAGATGG      120
ATTATCAACT GCAGTACAGA CTTTATAGTA TAGATCTGAG CAACACATGG AGTATCACAG      180
TTTCTCAGAG CAGTCTTTT ATGCCAATAA TGGGCACGCA TCATCAAGCT GCAAACCTCGA      240
G                                         241

```

## (2) INFORMATION FOR SEQ ID NO:1010:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 241 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:

```

GCGATTGAAT TCGACCACCT TGTTCAAATT TGTTATTATT TTTCTACTTT TGTATTGATT      60
CTGTTAATTC TTATCTATTG GTTCAGCTTA CTTTTTTATG TTGGTCACAT TTCTCTTCAT      120
TGATTGTGTT AATTTTCTA TGTTGATAGA CACATTTTAT GTTCATCACT TTTTCTCTC      180

```



CTCCTTCAAT TATTATCCTT CTGATTCTT TTTGTTTTCT CATAGTGTG GCCATCTCGA 240  
G 241

## (2) INFORMATION FOR SEQ ID NO:1011:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 338 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:

GAATTCGGCC TTCATGGCCT AGGCCACAAC TCAAAAGCAT TATCTTTTTT AGGGTTAGTA 60  
 GAAATTGTTT TATGTTGAT CGAGGTTTGT TTGATTGTCA AAATGTACAG CCACAGCCTT 120  
 TTAATTTGGG AGCCCCTGTT GTCATTCAAA TGTGTACCTC TACAGTTGTA AAAAGTATTA 180  
 GATTCTACTA TCTGTGGGTT GTGCTTGCCA GACAGGTCTT AAATTGTATA TTTTGTGGAA 240  
 AAGTTTATAT ACTCTCTTAG GAATCATTGT GAAAAGATCA AGAAATCAGG ATGGCCATT 300  
 ATTTAATATC CATTCAATTC ATGTTAGCGG AACTCGAG 338

## (2) INFORMATION FOR SEQ ID NO:1012:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 97 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

TGAATTCTAG ACCTGCCTCG AGCTCCAGCT GCCAACACCC TTGGACACAA TATTCCAGTC 60  
 TCCACTGCCC ATCTCATGTG GTTGCAGGNT CCTCGAG 97

## (2) INFORMATION FOR SEQ ID NO:1013:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 412 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCC TTCATGGCCT ACACATTCTG GGGGAAAAAA ACTGGAATTG TTTGTATTTT 60  
 GTTTTTTTGG GGGGGGATCT TTATGTGAAA AATCAGAGCT ACTTGTACC ATAAGCCCTT 120  
 ACTATCAACA AGATAATTAT TTGTAATCAC TTTTATATCC CAGGTTGGAA TTGCTTTCCC 180  
 CTTCTAAGTT ATCTTCCCTT AATAATATTT ATGATACCAG GACAGTGAGG GTATAAGAGC 240  
 AAATGTAGTG AGGTATTCAA AAATCCTGCA TATATGGACT CAAAAGTTCT TTAGTTATTT 300  
 GAATTATATA TAGCTATATT ATTTTATTAG CTTGGGTTGT CAGAAGATTG CCAATTTTAA 360  
 GAGTAAAGAG GAGAGAGATA AGTAATAAAA ATAGAGGAGG GGTACTCTCG AG 412

## (2) INFORMATION FOR SEQ ID NO:1014:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 218 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

```
GAATTATGTC TCCCATCTGT GCTTTTCCTA AGTGGGGCTC CCGTGCCGTT CACCTCACAT    60
TCCTGGTGTG TTA CTTGGCA GGC ACTCCCA CCACTCCGAA AGGGAGGCC TTCTGGGAG    120
GGAGGCAAGA AGGCTCCCCA GCCCCTTTC CCCCCTTTCCT GGGCCTGCGT TCCCAGGGCC    180
TCCCCAGCCC CTCTGGCTAC CCGTGACCT GCCTCGAG    218
```

(2) INFORMATION FOR SEQ ID NO:1015:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 513 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

```
GAATTCGGCC TTCATGGCCT ACCTTATTAC CAGACAACT TAACCAAACC ATTTACCCAA    60
ATAAAGTATA GCGATAGAA ATTGAAACCT GCGCAATAG ATATAGTACC GCAAGGGAAA    120
GATGAAAAAT TATAACCAAG CATAATATAG CAAGGACTAA CCCCTATACC TTCTGCATAA    180
TGAATTAACT AGAAATAACT TTGCAAGGAG AGCCAAAGCT AAGACCCCG AAACCAGACG    240
AGCTTCGGGG GAAGTATGTA GGAGTTGAAG ATTAGTCCGC CGTAGTCGGT GTACTCGTAG    300
GTTCAGTACC ATTGGTGGCC AATTGATTG ATGTAAGGG AGGGATCGTT GACCTCGTCT    360
GTTATGTAAA GGATGCGTAG GGATGGGAGG GCGATGAGGA CTAGGATGAT GGCGGGCAGG    420
ATAGTTCAGA CGGTTTCTAT TTCCTGAGCG TCTGAGATGT TAGTATTAGT TAGTTTTGTT    480
GTGAGTGTTA GGAAAAGGGC ATACAGTCTC GAG    513
```

(2) INFORMATION FOR SEQ ID NO:1016:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 74 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

```
GAATTCGGCC AAAGAGGCCT ACCAAAATAA AAACAGAAAT TATGAGATTG CCTCAACTCC    60
CACATATGCT CCAG    74
```

(2) INFORMATION FOR SEQ ID NO:1017:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 361 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

```
GAATTCGGCC AAAGAGGCCT AAAGACCTGA GGTCCAGGAT GAGCTCTTTC CCACAGAAAC      60
TTTGACAAAT GTGTGGACAA TAAAGNAGCA CTGCTTCCCT CATTACCAT AGCTCAGCTG      120
GATTATAGA TTAAATCTT TTAACGAAAA AGTTCATGTT GAGGTATTTA GATACTTTTT      180
AGAGGGTTAA ATACCAAGTT ACAGTGACAT TTAACCGAG TGTCTAGAAC ATGAAGGCAA      240
AGAGTCTGCT ATTCGGAGGT AAATTTTATC AGTGTGTTGAA AGGTGAAGCA TTTGCTCATG      300
AAATGTTGAA TGAATTTCTG TGACATGGCA CGAGGGTGGT AAGAAAAAGT GGGAACTCGA      360
G                                                                                   361
```

(2) INFORMATION FOR SEQ ID NO:1018:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

```
GAATTCGGCC AAAGAGCTAC GAGAGTGTCA TGAAATATCT CCGAGAGTCC TTCAGTGAGA      60
GGTTGTTTTT TTTTCCTATG GCTGGTGTCA CTTCTCTGG AGCATCTTCA TCGTTTCATC      120
ACAGTCACCT TCTAACTGGA GTCAGTAAGT TCACCTTCTT TAAGCTTCCC AGGCTGCAGA      180
TACAGAGAGT GTCCACATTC CACAGTCAGC TATTTCTACG ATCACTCCAT TTACGCTTGG      240
TTCAAATTC ACTCCCAGTG TTACCACTTC TCATTCTTTT GCTGTGTTTC ATCTGGGCCA      300
TTTGCTTCTT ATGATTACCT GTTTTGTGAA ACTGTCATGT GGGTTTATCC CTGGGAGACA      360
AGGAGACAGC ACAACCCCTT GGTGCTGTCT CTGTGAGCGA ACTCGAG                               407
```

(2) INFORMATION FOR SEQ ID NO:1019:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

```
GAATTCGGCC AAAGAGGCCT ACTAAGTTCT GTGAAGTGTA TGTAGCATCT GGGCTATAGA      60
TTTGAGCTT TTAGTGACTC TNGAGAGTGG TGAAGGAGTA TCTGCAGCTC TGATGACAGG      120
NACAGAGAGA GAGAGAGAGA GATGGGTATG CCATCCGTGG ACACCAGGAA GAGTACCGAG      180
GACTGCTGTA GGCTCCTTCA GTTCTAGTTT CCAACTCAA GCAATTTTTA AGTTTTTGTT      240
TAATTATGNN TCGGCTCTGC TAAGANANNA AGGTACCTTA CATAAGTCCC TCAAAAGACT      300
TGTGTGTTTG AAGATGGCGC CCTCGAG                               327
```

(2) INFORMATION FOR SEQ ID NO:1020:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 140 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

```

GAATTCGGCC AAAGAGGCCT ATGAATGCTA TATACCCTTT TTATATCAAA AGTCTCAAGC      60
ACTTATTTTT ATTCTATGCA TTGTTTGTCT TTTACATAAA TAAAATGTTT ATTAGATTGA      120
ATAAAGCAAA ATTACTCGAG                                         140

```

(2) INFORMATION FOR SEQ ID NO:1021:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

```

GAATTCGGCC AAAGAGCTAC GGCCAAAGAG GCCTAGACTC GCCGCTGNTC TCACACCACT      60
GTGGAACGTC CCCGCCNTTC CCCTTGGGTC CCTTATCTTA GGGGACCGGG ACGTCCATCC      120
CTTCTGCAGT GGCAGCNTCT GAGCCAAAGC GCCTCTCCCA GAAGCCGGAC TTTCAGGAC      180
CCTCACTCCC AGCCACACCC TGACACGGCC TGACTGGGGT CTCCTGTGAG TCCCATGCTC      240
GGCTTTGTCT GACACCTCCC AGGACAAGAC CGTCCCTTCT CCCCAACTG GGCTCTCCAC      300
CAAGAGCCGC GTTACCCAC GGGGAGTGG GCTCCACACA GGCCAGTCCT CGAG              354

```

(2) INFORMATION FOR SEQ ID NO:1022:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 633 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

```

GAAAGAGGCC TAATCGTCAC ATCCATCAGA GGATTGCTGA TCACTCTTAC CAAGTCTTT      60
TATGCCATCT CTAGCAGTAA GTCCTCCAAT GTCATTGTCC TGCTATTAGC ACAGATAATG      120
GGCATGTACT TTGTCTCCTC TGTGCTGCTG ATCCGAATGA GTATGCCTTT AGAATACCGC      180
ACCATATCA CTGAAGTCCT TGGAGAACTG CAGTTCAACT TCTATCACCG TTGTTTGAT      240
GTGATCTTCC TGGTCAGCGC TCTCTTAGC ATACTCTTCC TCTATTGGC TCACAAACAG      300
GCACCAGAGA AGCAAATGGC ACCTTGAAC TAAACCTACT ACAGACTGTT AGAGGCCAGT      360
GGTTTCAAAA TTTAGATATA AGAGGGGGGA AAAATGGAAC CAGGGCCTGA CATTTTATAA      420
ACAAACAAAA TGCTATGGTA GCATTTTCA CCTTCATAGC ATACTCCTTC CCCCTCAGGT      480
GATACTATGA CCATGAGTAG CATCAGCCAG AACATGAGAG GGAGAACTAA CTCAAGACAA      540
TACTCAGCAG AGAGCATCCC GTGTGGATAT GAGGCTGGTG TAGAGGCGGA GAGGAGCCAA      600
GAAACTAAAG GTGAAAAATA CACGAACTC GAG                                         633

```

(2) INFORMATION FOR SEQ ID NO:1023:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 665 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

```

GAATTCGGCC AAAGAGGCCT ATCTGCGAG TGGAGTGTCC GCTGTGCCCC GGCCTGCACC      60
ATGAGCGTCC CGGCCTTCAT CGACATCAGT GAAGAAGATC AGGCTGCTGA GCTTCGTGCT      120
TATCTGAAAT CTAAAGGAGC TGAGATTTC GAAGAGAACT CGGAAGGTGG ACTTCATGTT      180
GATTTAGCTC AAATTATTGA AGCCTGTGAT GTGTGTCTGA AGGAGGATGA TAAAGATGTT      240
GAAAGTGTA TGAACAGTGT GGTATCCCTA CTCTTGATCC TGGAAACCAGA CAAGCAAGAA      300
GCTTTGATTG AAAGCCTATG TGAAGAGCTG GTCAAATTC GCGAAGGTGA ACGCCCCGTCT      360
CTGAGACTGC AGTTGTTAAG CAACCTTTC CCACGGGATG GATAAGAATA CTCCTGTAAG      420
ATACACAGTG TATTGCAGCC TTATTAAAGT GGCAGCATCT TGTGGGGCCA TCCAGTACAT      480
CCCAACTGAG CTGGATCAAG TTAGAAAATG GATTTCTGAC TGGAACTCTCA CCACTGAAAA      540
AAAGCACACC CTTTAAAGAC TACTTTATGA GGCACCTGTG GATTGTAAGA AGAGTGATGC      600
TGCTTCAAAA GTCATGGTGG AATTGCTCGG AAGTTACACA GAGGACAATG CTTCCCAGGC      660
TCGAG                                     665

```

(2) INFORMATION FOR SEQ ID NO:1024:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 549 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

```

GAATTCGGCC AAAGAGGCCT ACTTGATTG GATTCACATT GCTTTCATTT CTTAAAATGC      60
TTCACCTCAG GTTCTTGGTC TTGGAAATAA ATTTCAAGGT GCATTGTATC CATTTTAAGC      120
TGCTTTATTT TATTTTCACT TGTATGAGCA AATTCTTGGG GGAGCTTTGC TTTTCTTCTG      180
CCAGAAAAAC AAAAGGGGGA AATGAAAATC TTTTGGAA TGAGTTCTGT GGGTTTCTT      240
AACAGCCACC ATGTTTATTA GTTACATTGT GTTTGGCCA ATCAGTGCAA TGTAAACAAAT      300
TTTACAGTTA ATTGCTTTCA ATTGAGTCAG TAAACCTGTG ATAGATAATT TATTTAACTG      360
GAAAACCTAG GTACCCATAA GAAAAAAGAT TCATTCTCTG TGAAAACCTG AGGAATCTGT      420
TGTTGTTTTT ATTTGAATAT GCTCTACTTC TGCTCTAGTA TTTGGTTTGG AATATATTTT      480
GTGGCTCTAA TTAAGTATTT TTTAAAAACC CTACCTCCAT TAACAGTTGG TAAAGGCCCC      540
CTTCTCGAG                                     549

```

(2) INFORMATION FOR SEQ ID NO:1025:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

```

GAATTCGGCC AAAGAGGCCT AGTTAAGTCT GAACTAGTCT TTTCCTTTGT GATGTGGTTG      60
GAAAGTCTTC CCTGTCCAA GGAATCCTCG AG                                     92

```

(2) INFORMATION FOR SEQ ID NO:1026:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

```
GAATTCGGCC AAAGAGGCCT AGTTAAAAAC TAATATTTAT ATGACAGAAG AAAAAGATGT      60
CATTCCGTAA AGTAAACATC ATCATCTTGG TCCTGGCTGT TGCTCTCTTC TTAGTGTTT      120
TGCACCATAA CTTCTCAGC TTGAGCAGTT TGTTAAGGAA TGAGGTTACA GATTCAGGAA      180
TTGTAGGGCC TCAACCTATA GACTTTGTCC CAAATGCTCT CCGACATGCA GTAGATGGGA      240
GACAAGAGGA GATTCTGTG GTCATCGCTG CATCTGAAGA CAGGCTTGGG GGGGCCATTG      300
CAGCTATAAA CAGCATTGAG CACAACACTC GCTCCAATGT GATTTTCTAC ATTGTTACTC      360
TCAACAATAC AGCAGATCTC GAG                                         383
```

(2) INFORMATION FOR SEQ ID NO:1027:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 403 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

```
GAATTCGGCC AAAGAGGCCT ACATGTGGAC TGCACGTGTT ACTTTTGGTT GGAAGTGGAC      60
AATTGCGGGA ATATCTACTA TGTATTATCT TCAAGAACCC ATCATCCCAT TAGATGGAGA      120
AACCTGGAGT TATCTCATG CTATATGTGT CTGTTCTACT GCAGCATCTC TAGGAGTTTA      180
TTATGCCTTG GACAAATTCC ATCCAGCTTT GGTAGCACA GTACAACATT TGGAGATTGT      240
GGTAGCTATG GTCITGCAGC TTCTCGTGCT GCACATATTT CCTAGCATCT ATGATGTTTT      300
TGGAGGGGTA ATCATTATGA TTAGTGTTTT TGTCTTGCT GGCTATAAAC TTTACTGGAG      360
GAATTTAAGA AGGAGGACT ACCAGGAAAT ACTACGACTC GAG                                         403
```

(2) INFORMATION FOR SEQ ID NO:1028:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 71 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

```
GAATTCGGCC AAAGAGGCCT AAAACCGAAA CTTGATGAA AATGAAATTC CTCAGAGAA      60
TGGCACTCGA G                                                         71
```

(2) INFORMATION FOR SEQ ID NO:1029:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 349 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029:

GAATTCGGCC	AAAGAGGCCT	AGAAACATGT	CTAAGGTNGC	ACACAGCTAG	TANGCGTTAG	60
AAACGTGTCT	CAAACCCAAG	AGGTCTGGCT	CTGGCATCCG	TGATCATAAC	CACTNGCTTT	120
GCCTGATCTA	ACAGTAAAGA	TGGATGAAAA	AATAAATCAA	GTGTGATGAG	TGTTATATAA	180
GAAAGGGGAA	ATAGCAGGGT	TCAGTGTGGA	ACATAGGAGA	GTGGGCCTTC	ATTCCCTCCA	240
GTGAGGGGCC	AAATAAGGCA	TCCCTGAGGA	AGAGACATTA	AGCTGAGATC	TGAAAGGTGA	300
GCCTGAATAA	GTTAGGTGAA	GGAGCATGAG	TAAAGGGAAG	CCGCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:1030:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030:

GAATTCGGCC	AAAGAGGCCT	ACTGATGATA	ATAAAACAGA	GCTTTACTTG	GGAGAAATTA	60
GCCTTGAAGG	TGTGACATCC	AAAACAATT	TTTAAAAAAA	ATTTAGACAA	CTAAAAAGGG	120
AAATGTCAA	AGGGAGAAAC	TTAAAAACA	AAAGGAAAGT	AGTCAGAGAA	TCAGAGAGAA	180
AATATGAACA	GAACACAGTA	AAAAGGAATG	GCTACAAGAG	GGATCAGCAA	CTCGAG	236

(2) INFORMATION FOR SEQ ID NO:1031:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031:

GAATTCGGCC	AAAGAGGCCT	ATTAGAAATA	AATATCTTCC	TTCAATAGAT	GAAATGAAA	60
ATACAGAAAA	AAGAGAGCAG	TTGTCAAATT	TAAAAGTTTT	GAATCACTCC	CCAATGTCTG	120
ATGCCTCTGT	CAATTNGAC	TACAAATCTC	CATCCCCATT	TGACTGCAGC	ACTGATCAAG	180
AAGAGAAAAT	TGAAGATGTT	GCTAGTCACT	GTCTGCCTCA	GAAGGACCTG	TATACTGCTG	240
AAGAGGAAGC	TGCTACCCCTT	TTTCCTAGGA	AAATGACATC	CCATAATGGG	ATGGAGGACA	300
GTGGAGGAGG	AGGTACTGGA	GTGAAGAAGA	AACGGAAGAA	AAAGGAGCCA	GGAGACCAAG	360
AGGGTGCAGC	AAAGGGAAGC	AAGGACAGAG	AGCCCAAGCC	AAAGAGGAAA	CGAGAACCGA	420
AAGAGCCAAA	GGAAGAGCTC	GAG				443

(2) INFORMATION FOR SEQ ID NO:1032:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:

GAATTCGGCC AAAGAGGCCT AATAAGAGC AAAAAATGT TAATGTCAAG TCAAATTGCC	60
TGTAAATGAC TTAAGGAATA TGTTAATGAT CTTGCTCCAA ATGAATAATT ATAAAGCAGG	120
TGCACTGGAG ATATGATCAT TTAAGTAAA GAAACAGCT TCTAATGGCT TCAATAACCA	180
AGATAATGGT GATATTGGAG AAGCCTGTTA AACTCATTGT TCATGCCATT CATTTAATAC	240
ACAAGAGAAC TTCAGATGGA ATCTCCCTGT GGACTCATTG CCCTGCTTAT TTAAATAGCA	300
GTTAATTTAA ACACACACCC AAGTCAAAAC TGCATTATTT CTAACACACC TCTTTCTAAT	360
AAACTATGTT CTCCAATAAC AGAACCCTG TCTCGAG	397

## (2) INFORMATION FOR SEQ ID NO:1033:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 372 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:

GAATTCGGCC AAAGNGGCCT ATTTTAAAAA TCACCTTTAAG NATCCAATAG AGAACAACAA	60
AGCCATATTG AGATGCAGGT TTTAGGAATT TGGTAGTAAT CCCTCACAAG GTCAGACTTG	120
ATCTCCTGGA CAATCAGGGC ATGCTAGTCA GCTTTCATGA CTCAGCAAAG CTACAAATTA	180
TGTATTTTGG CTTTTGTGG AAATTGCCAA CCCTACAGAT AGCAAACGTC TCCTCGGTG	240
TCAAAAAGTA AGAGTAGTTT TTAGAATTCT GCCTTTGGGT CTGTAGAAT GAAATATTTA	300
CAAGATTGTC TATTTGTTAA CATTTAGCT CCTTCCTGT TCCTTCAGTC TTGCTGCTGT	360
GCACACCACC AG	372

## (2) INFORMATION FOR SEQ ID NO:1034:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 355 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:

GAATTCGGCC AAAGAGGCCT AAATATGTTT TTTCTGCTT TTATACTGT AAAATGGAAT	60
GTCTTCTTA CCTTTAACCCT TATGATTGAG CTGTCCATAT CAGGTTTTT TTTCTACTGA	120
CTATTTATTG GGACTAGCTC ACTTTATTAA TTATGCATCC TGATATCTTA TAGAATGGAT	180
AGTGATTTC AATATTATTA ATTAAGTGGG CCTTGTGTAG ATATAAGCA AGATACCTCC	240
AGTAGGTCCT GTTAGCAGTA AGTTTATAT TGTGGAGGTG AACAAAGGTAT TTTTGTGTAA	300
ATCAGTTTAC TAAATTGTAT TATTTTCAAG CTAGATTGTG ACGGTAAGGC TCGAG	355

## (2) INFORMATION FOR SEQ ID NO:1035:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 111 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:

```

GAATTCGGCC TTCATGGCCT ACGTCTCAGC ATTATGCATT CCAGTTGGTT TTTCCCATG      60
CTTTCTCTGA GCTGTATCCA AGTGAGTCGT ATTAATTTCA GAGGAGTATT T          111

```

## (2) INFORMATION FOR SEQ ID NO:1036:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 560 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:

```

GAAATTCGGC CTTCATGGCC TANATGAACA AACTCCAGA TACCATTGAT AAGAAATTTT      60
GCATCAAGAA GGGCTTCTGA AAAGACCCAC GTGCTCCAGT CCCAGCTCCA AAAGCCACTG     120
ATGACAAGGG CCCCACTGTG GAACCTAAGT CTGGGAGCCC CCTGACTTCT GGCTGGCCAG     180
AGCTGCGGTC CGTCAAGGGC TTGCCTCGCT TCAGAATCAG TAACATAGAT CTTAAGTGCA     240
ATTGATTAAT AAGCAGTGAG TTAGTGTAGC TTCCTTTAGC TCTACCGAAC TCTTTTAAAA     300
AACTCAAAC TGAAGCAGCCT TAGAAAAGGG GTTGGGGGGT GGAACCACAG GCCATTTCCTC     360
TAAGTGGGCT GCTGTGAAGT TTTAAATGAA AGCTCTAGCT TTAGGAGCTT GAGCCATTTC     420
CTGACTGCAC TGGCCTGGCA GTCTGGCTGC TGCAGAAGAG TTTTAAAGA GGGGTCGGAG     480
CCCGCCGTG AGAGCGGTC TTCTACCAT GTGGGGCTGT ACTACGTGGT GGTCTTGGTT     540
TCTCTTACA GAAATGCTCT

```

## (2) INFORMATION FOR SEQ ID NO:1037:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:

```

AAATTGGGCA GTGGTAGCAC CTGACCCAGG GCTGCTGTGA GGCCCCCTG GGCTGAAGCA      60
CATGTGGTGC AGAGGGCCAG GTTGGGGTGT GAGTGCCAGT TCCCACTGGC CTTAGGCCCC     120
ATCCACTGCT GCTCCAGGG CCATGGGTGA GCCTTTCCAC TTCTTATAAA GTAGAGAAAA     180
GTATTATAG TATCTTCTT GGTAAATCCT TTTCTTGGT GATGTTTCATC TGCAATTCTG     240
TACATTTTTT CAGATCTTCT GATGAACAAA TTCCTTTAAT TTGTCATGTC AACTTGTGTA     300
ATATTTTCCT TTGTGACTCG AG

```

## (2) INFORMATION FOR SEQ ID NO:1038:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 517 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GAATTCGGCT	TCATGGCCTA	CACTGTAGCA	AATTGCGTTG	GAAAAGAACT	AGCTCCACAT	60
GTCAAGAAGC	ATGGAAGCAA	ATTTGTTCCA	GAATCTCTTA	AAAAAGACAA	AGATGGGAAA	120
TCTCCTCTGG	ATGGTGCTAA	TGGTTGTAGC	AGCAAGTAGT	GTTCAAGGAT	TTTCAACTGT	180
CTGGCAAGGA	TTGGAATGTG	CAGCTAAATG	CATCGTTAAC	AATGTTTCAG	CAGAAACTGT	240
ACAAACTGTC	AGATACAAAT	ACGGATATAA	TGCAGGAGAA	GCTACCCACC	ATGCGGTGGA	300
TTCTGCGGTC	AATGTTGGCG	TAAGTGCCTA	CAATATTAAC	AACATTGGTA	TCAAAGCAAT	360
GGTGAAGAAA	ACTGCAACAC	AAACAGGACA	CACTCTCCTT	GAGGACTATC	AGATAGTTGA	420
TAATTCTCAG	AGGGAAAATC	AAGAAGGAGC	AGCAAATGTC	AACGTGAGAG	GGGAGAAGGA	480
TGAGCAGACG	AAGGAAGTAA	AGGAGGCCAA	ACTCGAG			517

## (2) INFORMATION FOR SEQ ID NO:1039:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC	TTATGGCCT	ACAGAAATGAA	GAAAGCAAGC	AGGAGTGTG	GCTCAGTGCC	60
TAAAGTGTCT	GCAATAAGTA	AAACGCAAAC	AGCAGAAAAA	ATTAAACCTG	AAAACAGCTC	120
TTCAGCATCT	ACGGGAGGCA	AACTTGTGAA	ACCTGGAACA	GCAGCATCAT	TGTCAAAGAC	180
CAAGAGCAGT	GATGACCTTT	TAGCTGGAAT	GGCCGGAGGG	GTAACGGTGA	CTAATGGTGT	240
TAAAGGAAAG	AAAAGCACCT	GCCCATCTGC	AGCACCTTCA	GCATCTGCCC	CTGCCATGAC	300
CACCGTGGAG	AACAAATCCA	AGATTAGCAC	AGGCACAGCT	TCTTCAACCA	AGCGGAGCAC	360
TTCTACAGGT	AATAAAGAAT	CCAGTTCTAC	TAGAGAAAGA	TTACGTGAAC	GTACCCGATT	420
AAACCAAGC	AAAAAACTAC	CTTCTGCAGG	TCAGGGAGCT	AATGACATGG	CATTGGCCAA	480
ACGTTCCCGC	AGTCGAACTG	CTACAGAATG	TGACGTTCTG	ATAAGCCTCC	CTATAGTGAG	540
TCGTATTA						548

## (2) INFORMATION FOR SEQ ID NO:1040:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAGGAAATGG	CCAAACAGAA	AGCAGCTCCT	GAAGCCAAGA	AACAGAAAGT	GGAAGGCACA	60
GAACCGACTA	CGGCTTTCAA	TCTCTTTGTT	GGAAACCTAA	ACTTTAACAA	ATCTGCTCCT	120
GAATTAAAAA	CTGGTATCAG	CGATGTTTTT	GCTAAAAATG	ATCTTGCTGT	TGTGGATGTC	180
AGAATTGGTA	TGACTAGGAA	ATTTGGTTAT	GTGGATTTTG	AATCTGCTGA	AGACCTGGAG	240
AAAGCGTTGG	AACTCACTGG	TTTGAAAGTC	TTTGGCAATG	AAATTAAACT	AGAGAAACCA	300
AAAGGAAAAG	ACAGTAAGAA	AGAGCAAGAA	CTCGAG			336

## (2) INFORMATION FOR SEQ ID NO:1041:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

```

GAATTCGGCC TTCATGGCCT AGGCTTCCCG AGCAGTCTCC AAACATATAT TACATTGAA      60
GGTCGCGCCC GCCCGCCCC GCTCGCGATT TGGCCCTTCG GGGCCCCCGT CCTCCACCTC      120
CTTCTCTCCC ATGATGCATT GTCATCTGGC TTTATCACC TGTTCTGCC TTGAATTTGA      180
ACATGCCAAA GATATAAGTA TTGGATTGCA GTCTTGCACT ATTATTGGT GAGTTTTTTT      240
TTAATGCATA CAGCTTTTTC ATAAGTGCAT AAATGGGATT ATATAACAA TGTTAGAGT      300
AGTTTTCTTT TTTACCCTTT TGCTGGTTT GCTCTTCTTC CCTATCATAT CCCTTCCAAT      360
CCATCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1042:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 563 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

```

GAATTCGGCC TTCATGGCCT ACGCCATCTT CCAGTAATTC GCCAAAATGA CGAACACAAA      60
GGGAAAGAGG AGAGGCACCC GATATATGTT CTCTAGGCCT TTTAGAAAAC ATGGAGTTGT      120
TCCTTTGGCC ACATATATGC GAATCTATAA GAAAGGTGAT ATTGTAGACA TCAAGGGAAT      180
GGGTACTTTC AAAAAGGAAT GCCCCACAAG TGTTACCATG GCAAACTGG AAGAGTCTAC      240
AATGTTACCC AGCATGCTGT TGGCATTGTT GTAAACAAAAC AAGTTAAGGG CAAGATTCTT      300
GCCAAGAGAA TTAATGTGCG TATTGAGCAC ATTAAGCACT CTAAGAGCCG AGATAGCTTC      360
CTGAAACGTG TGAAGGAAAA TGATCAGAAA AAGAAAGAAG CCAAAGAGAA AGGTACCTGG      420
GTTCAACTAA AGCGCCAGCC TGCTCCACCC AGAGAAGCAC ACTTTGTGAG AACCAATGGG      480
AAGGAGCCTG AGCTGCTGGA ACCTATTCCC TATGAATTCA TGGCATAATA GGTGTTAAAA      540
AAAAAATAA AGAGACACTC GAG

```

(2) INFORMATION FOR SEQ ID NO:1043:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

```

GGCTTGATTG TTAGAGAAAT AATGTTGGA GAAGAACCCT CAATAACATC AGGTGAAAGC      60
CAGACTACCT ACTCTACTTT CAGTGCTCCG TTAATAAAG CAAATAGAAA AAAGTTAATT      120
GAAAGTCTTT CCCAGATTT TTGTCACCAA AACAAAGGGC TCTTGCTGAC AGTTAATACC      180
AGTAGTCAGA ATGGAAGGCC TGGAAGAACA CTTATTAAAG AAATCCAGAG TCCTCTGTCT      240
AGTATCTGTG ATGGCTCCAT AGCTCTAGAT GCTGAGCCTG TTACCCAGCC AGCATCGCTG      300
CCCAGACACA GCAGCACACC AGACCACACC AGCACACTGG AGCCTCCTCG TTTGCCTCAA      360
AGAAAGAACT TACAAAGTGA AAAGGAACT CTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1044:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

```

GAATTCGGCC TTCATGGCCT AAACCTGGAAG TCCTCTAAAT GTCTGTCAAT GAAGGAATAG      60
ATAAATTGTA ATATGTTTCAT ATAAATGCT GCATAAATAA GTGAAATTTA TAAATATACT      120
AACGAATGAA TCTTGAAAAC AGAGTTGGGA GATAAAAGCA AGCTGTTGAA GAACATGGTC      180
AGTATCCTCT CACTTATGTA AGTTAAAAAC TCCAAAGAAC ATTATCTATA TTGGTAATGG      240
CATAGACATG TGTGGTAAAA TATAAAATA TTAACATAAA GTTCTATACG CTTCAGGATA      300
TTGTTAGTAT AATAAGGCAG GAAGTGGATA GCATTGGGAT GAGAACTCGA G              351

```

(2) INFORMATION FOR SEQ ID NO:1045:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 390 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

```

GATTCGGCCT TCATGGCCTA AGCAGCTCGG GGTTCGGCAG CAGCGGTCCC ATCGGCTGAA      60
GTTCTGGGGG GGTGGGGCGC CGAGCGCGCG GGTGGGGGGG GGTCTGTGTC TTTGGCTTCT      120
CGACTCGGTC CTGTTTCGAC AGCGAACATG TCGCGGCCTG TCAGAAATAG GAAGGTTGTT      180
GATTACTCAC AGTTTCAGGA ATCTGATGAT GCAGATGAAG ATTATGGAAG AGATTCTGGC      240
CCTCCCACTA AGAAAATTCG ATCATCTCCC CGAGAAGCTA AAAATAAGAG GCGATCTGGA      300
AAGAATTCAC AGGAAGATAG TGAGGACTCA GAAGACAAAG ATGTGAAGAC CAAGAAGGAT      360
GATTCTCACT CAGCAGAGGA AGCTCTCGAG                                     390

```

(2) INFORMATION FOR SEQ ID NO:1046:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 381 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

```

GAATTCGGCC TTCATGGCCT ATGAAGCATC TGGATGGGGA AGAGGATGGC AGCAGTGATC      60
AGAGTCAGGC TTCTGGAACC ACAGGTGGCC GAAGGGTCTC AAAGGCTCTA ATGGCCTCAA      120
TGGCCCGCAG GGCTTCAAGG GGTCCCATAG CCTTTTGGGC CCGCAGGGCA TCAAGGACTC      180
GGTTGGCTGC TTGGGCCCCG AGAGCCTTGC TCTCCCTGAG ATCACCTAAA GCCCGTAGGG      240
GCAAGGCTCG CCGTAGAGCT GCCAAGCTCC AGTCATCCCA AGAGCCTGAA GCACCACCAC      300
CTCGGGATGT GGCCCTTTTG CAAGGGAGGG CAAATGATTT GGTGAAGTAC CTTTGGCTA      360
AAGACCAGAC GAAAACCTCGA G              381

```

(2) INFORMATION FOR SEQ ID NO:1047:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 318 base pairs

- (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

```
GAATTCGGCC TTCATGGCCT AGGGGTAGCC CTTGACCGCC TCCTGCTGGC ACAGGTCTTG      60
GTTCTTGTCT TTGACGCAGT CAACAGCGGC ACAGGCAATC TTTCGGTCAT CTTTGAAGGC      120
ATCAGCAGTA GCAGTAAAGT GCGGAATGAC CTTCTTACAG TGTGGGAACC AAGGGGCGTA      180
GAACATGACC AAGGTGTGTT TCTTCTTCTT CAGGGTCTCC CGGAAGTTGT CCCCCACCAG      240
GTGCAACACG CTTGTCTGCT GCTCTTCCA CGTGGGCTCT GGGGGCGGGG GGGCCTCAGG      300
GTTTTCATC CACTCGAG                                     318
```

(2) INFORMATION FOR SEQ ID NO:1048:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 591 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

```
GAATTCGGCC TTCATGGCCT AGCAAATTAT TCTTCAAAAT GATTATAACC AGTTGCACCC      60
TGTATTTCTT TTGACGCCA GCACAATGTG ACCCAACTTA AAATTGGGG GAAAAAGAAT      120
GCAGGAGTGA AATAACCAAG TCAAAACCAT GTACTATCTC CTTGGGGGTT AGGGATGCTA      180
AGAAGAGCCC ACAAATAGAG GATTACTCTT CCCCTGAATC TCTAACTCA GAAACAATTA      240
CCAAAAATA CATAACTCTT CCTTGTAGGG CCCTTTCCTT ATTCATTTAG GTAGTGTGAA      300
CATTAAGTAT AAAATAAATT ATGTTCTTAA TGCCTCTTAA ACCACTTACA TTCAAAGGGG      360
AACAGAAATC ATTCTAAGCG GGAAAACTT CCACCTTTT TTTTTCCTCA GTATCTCTCT      420
AATAACTAAA TGCCACTTAT TTGCATTCTC CTTGTGGATT TTTTGTACC TAAGGAAATG      480
CATTTGATGA GTGCTGAAA CTTCTTAAGT GCTTTACAGT TTGTTTCAT TGTTCGAGC      540
GGATCACTGG ACATCAAAGA TTCATTGCAC TTATGAACAA GGAACCTCGA G      591
```

(2) INFORMATION FOR SEQ ID NO:1049:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

```
GAATTCGGCC TTCATGGCCT AGGTTTCTTG GTGTTTTTGT TTTCTGGCAG GCAGTGAGAG      60
GAGGGGTGAA GGAGGAGTTT GGTGCCATT CTCTTCTGC TTTTCCTCT TCTGATGTCA      120
AACAAATGAT GAAATCCTG CTATGGGAGC CCGGGAGCCT GGGGCCAGGC TGCTGGGGGG      180
ACGGTAGAGG GTGCTCTGCT GACTTGGGGG GTTAGGGGGG TTCTGGGGCG TTGGAGTCCG      240
ACTGGCCTTG GGCCGAAAGA GGCTGCCCTG CTGGGTGCTG GTGCTGTTGG TGACCGTGGT      300
GTGGTCTGGC TCACCCGAGT CGCTCTCCGT GTAGCTGTAG GCCTGTGCC TCGAG      355
```

(2) INFORMATION FOR SEQ ID NO:1050:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 245 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

```
GAATTCGGCC TTCATGGCCT AATGTGTTAG AAGACTCCCT CTACCTACCT GTTAAAAAAA    60
AAATGACTTT TTTTGCAATT TTTTGCTGTT TCCTTAAAC TAAAGCTGTG TTCTTCTGTT    120
TTGAAGGGTT TCGCCCCCA ACATATGTTA TCCCCCGCC TGTGGCATT TCTATGGGCT    180
CAGGTTACAC CTTCCAGCT GGTGTTTCTG TCCAGGAAC CTTTCTTCAG CCTACAGCTC    240
TCGAG                                         245
```

(2) INFORMATION FOR SEQ ID NO:1051:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 548 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

```
AATTCGGCCT TCATGGCCTA GGGAGTTTGA GGGAGTTCTT TGGTATGCCC GCATCCCGGG    60
GTTGTTTGCT GGTATTATCT GCCACATTAT CACCTTGTTA CGTTTATGGT ACCGGAGATT    120
GTAGGTAAAG TTTGTTATG CTTCCACGA CCTCCCTCTG TCGGTCCGG ATGTTTGTA    180
ATTGGGGTTT GCTTTATAGC AGCGAGGCCT GATAGTAAA GTCTGCTGGC TTTACTGTGG    240
CGCCTAGATA AGGGCTTAGA AATGTAAAAA GGCTTGGGGC AGCATGGAGA GGAGTTGCAG    300
AGTGGGGAGG GGCAGGCAGC ACCAAGAAGC TTCTTGAGGC AGTTTGTCCC TAACAGATT    360
ATTTTCGGAA AGGAATCTG AACTCTGAGA CCAATCAGT ATATTGTGT ATATTTTTC    420
ATATACTCC AAAGTCTTT AATCTTAAT TAACCTGATA TTAAGTGAA AAGGGTTTAC    480
TCTTATCCT AGTTAATTAC ATATTCCATT TGTTAATGAA ACTATCCTTT GCTCACTGCA    540
TACTCGAG                                         548
```

(2) INFORMATION FOR SEQ ID NO:1052:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

```
GAATTCGGCC TTCATGGCCT ACATAATACT TGCTGCTCTT GGGGTGAAG CCGTTGTTAT    60
TTTCTTAGGA GTTAAGTTGC TTTCCAAAAA GATTGGCGAG CGTGCTATTC TACTGGGAGG    120
ACTCATCGTT GTATGGGTTG GCTTCTTTAT CTGTGTACCT TGGGGAAATC AATTTCCTAA    180
AATACAGTGG GAAGATTGTC ACAATAATTC AATCCCTAAT ACCACATTG GGGAAATTAT    240
TATTGGTCTT TGGAAGTCTC CAATGGAAGA TGACAATGAA AGACCACTG GTATGCTCGA    300
G                                         301
```

(2) INFORMATION FOR SEQ ID NO:1053:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 642 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

```
CGGAGGCCCT GAATGCCCA TGGCACCAC ACAGCTCGCG CTCCTGCAAG TGTCTTTCT 60
GGTGTTCCTCC GATGGCGTCC GGCCTCAGCC CTCTTCCTCC CCATCAGGGG CAGTGCCAC 120
GTCTTTGGAG CTGCAGCGAG GGACGGATGG CGGAACCTCC AGTCCCTTC AGAGGCGACT 180
GCAACTCGCC CGGCCGTGCC TGGACTCCCT ACAGTGGTCC CTACTCTCGT GACTCCCTCG 240
GCCCCTGGA ATAGGACTGT GGACCTCTTC CCAGTCTTAC CGATCTGTGT CTGTGACTTG 300
ACTCCTGGAG CCTGCGATAT AAATTGCTGC TGGCAGAGG ACTGCTATCT TCTCCATCCG 360
AGGACAGTTT TCTCCTTCTG CCTTCCAGGC AGCGTAAGGT CTTCAAGCTG GGTGTGTGTA 420
GACAACTCTG TTATCTTCAG GAGTAATTCC CCGTTTCCTT CAAGAGTTT CATGGATTCT 480
AATGGAATCA GGCAGTTTGT TGTCCATGTG AACAACTCAA ACTTAACTA TTTCCAGAAG 540
CTTCAAAGG TCAANGCAAC CAACTTCAG GCCCTGGTTG CAGAGTTTGG AGGCGAATCA 600
TTCACCTCAA CATTCCAAAC ACAATCACC CACTCCTCG AG 642
```

(2) INFORMATION FOR SEQ ID NO:1054:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 496 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

```
GAATTCGGCC TTCATGGCCT ACCTGTGAGT ACCTGGATGA AGCATACCCA GGAAGAAGC 60
TGTTGCCGGA TGACCCCTAT GAGAAAGCTT GCCAGAAGAT GATCTTAGAG TTGTTTCTA 120
AGGTGCCATC CTTGGTAGGA AGCTTTATTA GAAGCAAAA TAAAGAAGAC TATGCTGGCC 180
TAAAAGAAGA ATTTGCTAAA GAATTTACCA AGCTAGAGGA GGTCTGACT AATAAGAAGA 240
CGACCTTCTT TGGTGGCAAT TCTATCTCTA TGATTGATTA CCTCATCTGG CCTGGTTTG 300
AACGGCTGGA AGCAATGAAG TTAAATGAGT GTGTAGACCA CACTCCAAA CTGAAACTGT 360
GGATGGCAGC CATGAAGGAA GATCCACAG TCTCAGCCCT GCTTACTAGT GAGAAAGACT 420
GGCAAGGTTT CTTAGAGCTC TACTTACAGA ACAGCCCTGA GGTCTGTGAC TATGGGCTCT 480
GAAGGGGACA CTCGAG 496
```

(2) INFORMATION FOR SEQ ID NO:1055:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

```
GAATTCGGCC TTCATGGCCT AATGTGCTTA ACCCTCAAGA AATGTGCACA ACTGAAAGAC 60
GGGAGCAAGC TGACACTGCA AGGAACACAT GATGCTTTGG AATGGGTGGC CTGCGTATTC 120
AAACACATCA AAGCAGCAGT TACTTGAACA ATCGGAACCT CTTCAAATAC TGGCCCACTT 180
```

CTTCCTTGGG GTAGGGCCGG AGAGCAATAC AAGTGGCGAT ATTCTCTGGT TGCTCAAGCC	240
ACAGCATGTG GTCAATGTTC TTCTGTTGCA GGGTCTCGGC CAGCTCCTTT AGGGTGGTCT	300
CATCTGGGGC CTCGAG	316

## (2) INFORMATION FOR SEQ ID NO:1056:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 369 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

CGGGTTAAGG TAGCATCAGA ACCCTGGACG CGGAGTCAGG GCTGGCAGAT AGCAAAGGCAT	60
CTCTCGGAGC GTTCTTGGGA GGCGCCATCT TGCCCGACTC CATGTTATCC AGCCACTCGT	120
CATCCCGCGG AGACAGAGGA GAGAGGAGAG CTCGCGGGGA AGCAGAATTC CCAACCGTTC	180
CATCCAACAA TGAATCCGT ATCAGGATGT GGTAGCTCC CTGTACCAGC GAGTGTACAG	240
TCAGAGACTG GCCAGTCCCC TTGTTACAAA CACTGTAGAA GAATGTGACA GCAGCTGCTG	300
TGGCCAGTAG ATTGTCTACC TGTAGTTGCA GAGAAGCCCA AGAGTTTGAT GATGAGGCAG	360
TTCTCGAG	369

## (2) INFORMATION FOR SEQ ID NO:1057:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 540 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:

GAATTCGGCC TTCATGGCGT ATCTCATTCT GTCTCCCAGG CTGGAGTGCA GAGAAACAAT	60
CTTGGCTCCT GCAGCCTCAA CCTCCCAGGG TCAAGTGATC TTGTTGCCTC AGCTTCCCAT	120
ACAGCTGGAA GCACAGGTGC ATGCCACCAC ACTTGGCTAA TTTGTATTT TTTGTGGAGA	180
TAGGATCTCT CTATGTTGTC TAGGCTGGTC TTGAAACTCC CTGACCCCGT GATCCACCTG	240
CCTCGGCCTC CCGAAGTACT GGGATTATAC GCATGAGCCA CCGTGCCCG CCGTCATTCT	300
TATATTATTA TTTCTAGGT GTCTCTCCTG AAGACTATCT TCTGGTCTCG AAATGGACAT	360
GATGGATCCA CGGATGTACA GCAGAGAGCC TGGAGGTCCA ACCGCCGTAG ACAGGAAGGT	420
ATGGCTCTGT TGAATCCGC ATAGTGTGGA AATGAGTTTG CCCTGGAAAG GGAAAGAACA	480
GCTTCTTGCC CTCAGGTTTC TCACCTTCTC CTCTCTCAC TCTACCAAG GACCCTCGAG	540

## (2) INFORMATION FOR SEQ ID NO:1058:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 430 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:

GAATTCGGCC TTTATGCNAN NTTCTTTCA AAAAAAAAAA AGAAAAGAAA TTGCAAAAGT	60
--	----



```

TCTTCTAAAG TTAAATCCAA GGTGGTTTGT CTAGCAGAGA GCCAGGAATT CTTTCTAATA      120
GTGGGCAGAG CCCAGAGACA AGGGGAAGAA AGATGACCTT CTCCCAGTC CTTCCCAGCA      180
CCATTTTGT TTCACACCAG GCTTGTGGCA TTTTGGTGCT CACAGGGGTT TTGCCTTCTG      240
ACCTCTCCTT GGAGTAGGCC ATTCTCATGC AGGGCTCACC CTGAGGCAGG AGGACCAAGG      300
GCTCCCTGCG TCCACGGACC ACGTATGCCT TGGTGGTCAC TCCCATCGGG GCTATCAGTT      360
CTGCACTGTG CCCTGGTGCG GATTTTAATG CATATTTTGA TATATAAATG TTCCCAAAGG      420
CCGTCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1059:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 457 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

```

GAATTCGGCC TTCATGGCCT AACATTAAGG AAAAAGCCTT AATGGCCATG AATAACCTGA      60
GTGAGAATTA TGAAAATCAG GGCCGGCTTC AGGTGTACAT GAATAAAGTG ATGGATGATA      120
TCATGGCCTC TAACCTGAAC TCAGCAGTTC AAGTAGTTGG ACTAAAATTT CTAACAAACA      180
TGACTATTAC TAATGACTAC CAACACCTGC TTGTCAATTC CATTGCAAAC TTTTCCGTT      240
TGCTATCTCA GGGAGGTGGA AAAATCAAGG TTGAGATTTT GAAAATCCTT TCGAATTTTG      300
CTGAAAATCC AGATATGTTG AAGAACTTC TCAGTACCCA AGTGCCAGCA TCATTAGTT      360
CCCTCTATAA TTCTTACGTG GAATCAGAAA TCCTTATTAA TGCCCTTACT CTATTGAGA      420
TTATCTATGA CAATCTCAGA GCAGAAGTGG CCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1060:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 474 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:

```

GAATTCGGCC TTCATGGCCT ACAACCCCGC GATAACCACT GCCGAATGCC TGAAGGCGCT      60
TGAGCACGTG TTTGGGAGCG TTGAGAGCTC TACGGATGCC CCGATCAAAT TTCTGAACAC      120
TTATCAGAAC CCGGGAGAAA AATTGTCTGC TTATGTCATT CGTCTGGAGC CTCTGCTACA      180
GAAGGTGGTA GAGAAGGGGG CCATTGATAA AGATAATGTG AACCAGGCCC GCCTAGAGCA      240
GGTCATTGCC GGGGCCAACC ACAGCGGGGC CATCCGAAGG CAGCTGTGGC TTACCGGGGC      300
TGGGGAAGGG CCAGCCCCAA ACCTCTTTCA GTTGCTGGTG CAGATCCGTG AGGAGGAACC      360
CAAGGAGGAG GAGGAGGAGG CTGAGCCAC CCTTCTGCAG TTCGGCCTGG AAGGGCACTT      420
CTGAGTGCCA GGAAAGGCAG CTTTAGTGCA GACCTAGATC ACAGCTACCT CGAG

```

## (2) INFORMATION FOR SEQ ID NO:1061:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 365 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:

GAATTCGGCC	TTCATGGCCT	ACCAGCCTCT	GTTAGATATG	TCCAGAGATG	GAAACTCACT	60
CCCCTACAAA	AGATGGAGCT	TAATGGAGAA	ATTGCAACTT	TCATTAAAAA	ACAAATTCAG	120
ATGAAATATC	AGTAACTGTC	TTGGACAGTG	CTGAAATCAG	GTGGTTAAAC	GGGTAAACAA	180
AATATACTGT	ATTTTGAGAA	ATGGCACAAA	AACAGGCAGT	CATCTTTAAT	GGCTATGCCT	240
AGGCAAACTA	CTAACATGCA	TTGTGAGAAT	GCCGTGTATA	CCTCACGTAC	TGTGTACTTT	300
GTACATATAT	TTTACCTTTT	ATACCTATGT	TCGATTTTGT	TTGTTTTTGT	CCTGGCGTCC	360
TCGAG						365

## (2) INFORMATION FOR SEQ ID NO:1062:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 434 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:

GAATTCGGCC	TTCATGGCCT	AGGAGCCGCA	GGGCCGTAGG	CAGCCATGGC	GCCCAGCCGG	60
AATGGCATGG	TCTTGAAGCC	CCGCGTCGGG	TCCCATCCGG	CCCATCGTGC	GCTGCCCCAC	120
GGTTCCGGTAC	CACACGAAGG	TGCGCGCCGG	CCGCGGCTTC	AGCCTGGAGG	AGCTCAGGGT	180
GGCCGGCATT	CACAAGAAGG	TGGCCCGGAC	CATCGGCATT	TCTGTGGATC	CGAGGAGGCG	240
GAACAAGTCC	ACGGAGTCCC	TGCAGGCCAA	CGTGCAGCGG	CTGAAGGAGT	ACCGCTCCAA	300
ACTCATCCTC	TTCCCCAGGA	AGCCCTCGGC	CCCCAAGAAG	GGAGACAGTT	CTGCTGAAGA	360
ACTGAAACTG	GCCACCCAGC	TGACCGGACC	GGTCATGCCC	GTCCGGAACG	TCTATAAGAA	420
GGAGAAAGCT	CGAG					434

## (2) INFORMATION FOR SEQ ID NO:1063:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 429 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:

GAATTCGGCC	TTCATGGCCT	ACTTAATTTT	AGAGCCGGGT	TCGCCGTCGG	ATCAACCTCC	60
AGGAGCTAGC	AGCGGGCGCG	GACCGGGCAG	TTTCCGCGCT	CAGCACAGGC	AGCTCGCGGT	120
CATGGGCGGC	TCAGCCTCCA	GCCAGCTGGA	CGAGGGCAAG	TGCGCTTACA	TCCGAGGGAA	180
AACTGAGGCT	GCCATCAAAA	ACTTCAGTCC	CTACTACAGT	CGTCAGTACT	CTGTGGCTTT	240
CTGCAATCAC	GTGCGCACTG	AAGTAGAACA	GCAAAGAGAT	TTAACGTCAC	AGTTTTTGAA	300
GACCAAGCCA	CCATTGGCGC	CTGGAACTAT	TTTGTATGAA	GCAGAGCTAT	CACAATTTTC	360
TGAAGACATA	AAGAAGTGGA	AGGAGAGATA	CGTTGTAGTT	AAAAATGATT	ATGCTGGGGA	420
GAGCTCGAG						429

## (2) INFORMATION FOR SEQ ID NO:1064:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 368 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:

GAATTCGGCC TTCATGGCTT AGTCTTGGTC ATGCCTGGGG AGCTCAGAAC GCCCCGGCTT	60
GGGCCCCCAGG CCCATGGACT CCCTTCCCCA TTCTGCCCTC CCATATTCCC CTTTTTTGGT	120
CCCAGACACC AGCACAAGA AAGGAGGGTT CACAGAGGAA GGCCAGGGCA GAGCCTGGCC	180
CCAGGAGGGG GATGAGGACA TTCCCGGTCC AGGTAGCTGC CGGCTGCTCT GGGAGGAAGA	240
GCCATGCGTC TGTAAGTGC TGGGGCTGGC GGCCCGCCCC ACTGCAGGGC CCAGCCTTGA	300
CCCCTGCACG TGGCCATCCA GCTGCCCTCT GGCTGCCCCCT GGCCTTGGCA CAGGCATCGA	360
GCCTCGAG	368

(2) INFORMATION FOR SEQ ID NO:1065:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 104 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:

GAATTCGGCC TTCATGGCCT AAGATGGTTG CCAAGCAAGG AAAACTTATT TTATATTTTT	60
ATACTGTATC CAGGCTATGC CTGGGTGTGG AGGGCTTACT CGAG	104

(2) INFORMATION FOR SEQ ID NO:1066:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 0 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

(2) INFORMATION FOR SEQ ID NO:1067:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 125 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

GAATTCCTGG CCTTGGGAA CTCATATCCT GACCTCAGAT TGAGAAGACC ATCTGTCAAG	60
GCAATATTAGT AATCACCTCC GGTAGAAAAG ATTTACGGG TAACAAGTAG GCCATGAAGG	120
TCGAG	125

(2) INFORMATION FOR SEQ ID NO:1068:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 340 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

```
GAATTCGGCC AAAGAGGCCT AAGTTCAAAT AATTTAGAA TGGTGTCTGT TAGGAATGGT      60
CCAGAGGTTG GTTGGGGGAT GAAAGGAGGA CAGGGACTAC AAGGGATATT GCAAATGACT      120
GCCTTAAAT ACCAACATAA AGCAGTGGAT TCCCAGAGTC CTCCAATCTG TTATCAGACA      180
CAAAGATTTG AACAAAAATA AATGAAAGAT AGAAATCAAA AGGTTTTCTT TGAAGTCTCA      240
GGGTTATTTG CTTCTGAAAG CAAATGTGTT GTTCTTGCTT CATAGCAAAG TACTTTTCCT      300
ATTGATGCAT CACTTTATTG CTTTCTGTC TTCTCTCGAG      340
```

(2) INFORMATION FOR SEQ ID NO:1069:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 432 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

```
GAATTCGGCC AAAGAGGCCT AGACGGGACC TGTTCGAGA CAAGATGCAA GGAACACAGC      60
CTGCAGTGAT TCACAGCTTT GTTCAACCC ACAAAACCAGA AAATTAGCTC TTGGGTCTGT      120
GGGCCCCAAG TGAACCTTAA AGCAATAAAG ACTGGAAGCA GGTCTGGGAA GGCAATACAA      180
AATGTGGAGA GTTGAAAAGG AGGCAGAGCT GGCAGGAATG GGTAGGGAGA GTGTTGGTA      240
AATAGCACCT TTGAGTCAAA ATTGAGCAGT TTAGAAATCC AGGAAAGGGG ACTGGCTGTG      300
GGGAGGAGAA CCTGGGGGTA GAGGAAGTGG GGTGAAGATT CCTCACTAAG GGGCAACAGC      360
AGGAGGGTGG CCATCCTGGC CAAATGCCCT AGCCCTGTCC TTCTTAAGGT GATTCGGTTT      420
GGGAAACTCG AG      432
```

(2) INFORMATION FOR SEQ ID NO:1070:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 354 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:

```
GAATTCGGCC AAAGAGGCCT ATTCTAGACC TGCAGCAAGCA CGCTGAGGAG AAATTCATTG      60
AATTTGAAGA CTCTCAAGAA CAGGAAAAAA AGGACTTACA GACCCGAGTG GAATCTTTAG      120
AATCTCAAAC AAGACAACCT GAGCTGAAAG CGAAAAACTA TGCTGACCAG ATTAGCAGAC      180
TTGAAGAAAG AGAAGCAGAA CTGAAGAAGG AATATAATGC ATTACATCAA AGACACACTG      240
AGATGATCCA TAATTATATG GAACATTTAG AAAGAACAAA ACTTCATCAG CTCTCAGGGA      300
GTGATCAACT AGAATCCACA GCTCATAGTA GAATTAGAAA AGAACGCCCT CGAG      354
```

(2) INFORMATION FOR SEQ ID NO:1071:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 387 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:

```
GAATTCGGCC AAAGAGGCCT ATTCTGTCTT ATCAAAGGAA GTAAAGAAGT AAAACAAAA   60
AATGAACGTA TACAAGCACA GATTTTGTAG CTTGATTGT AGAGAAATGG TAGTTATGTG   120
GCTTGCCAAG AAAGTGCATC ACCTACTTCT GCTTCTGGGG ACAGAGGTGA AGGGGTCTGT   180
TCTGGAACCT TCTAAGGAGG CCATCTTCGT TATTACATCA GGAAGTTTC TAGTCAAAAT   240
GTTATTCCTG TCTACAGGGA AAAACAAAAG CAAAACACAA AAGAACACTG CTTCTAATGG   300
CATCATAGCA AGGAGTTTAT CTAGAAAGAT GATGCCAGCA GTCACCTCTT TTCCAGGAAG   360
ACAGAAACAA AAACGTTCT CCTCGAG                                     387
```

(2) INFORMATION FOR SEQ ID NO:1072:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:

```
GAATTCGGCC AAAGAGGCCT AGAAAGTGCC AAGAGGGAAA AAAGGCACTC TGAGAAGTTA   60
CGGCAAGAA TTGGGAAAGT TGTCAAACA AACAAACAAA AAATAATAGA TTTGTTTTAG   120
CAAACGACTT GGCTAAAAGT TACAAACCTA ATATATGTAA TACACAAGAC TACTTCATCA   180
TCTTCTTTC TGACAGTCTC ATGTTCTTTT TCAAGCCAAA AAGGGACATA TTCTTATAGC   240
TGGAAGTTTA AGGGAAAGAC TTCCAACCTA ACTCTGTGTT GAGGGTGCAA ATCATGTGAT   300
GAAGGCTCGA G                                     311
```

(2) INFORMATION FOR SEQ ID NO:1073:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073:

```
GAATTCGGCC AAAGAGGCCT ACGAAGAAAA AATATTTTGT AGAGAATTTT CCAGATTGAA   60
AGAAGATCTG AAAGGGAACA TTGACAAGCT CCGTGCCCTC GCAGACGATA TTGACAAAAC   120
CCACAAGAAA TTCACCAAGG CTAACATGGT GGCCACCTCT ACTGCTGTCA TCTCTGGAGT   180
GATGAGCCTC CTGGGTTTAG CCCTTGCCCC AGCAACAGGA GGAGGAAGCC TGCTGCTCTC   240
CACCGCTGGT CAAGGTTTGG CAACAGCAGC TGGGGTCACC AGCATCGTGA GTGGTACGTT   300
GGAACGCTCC AAAAATAAAG AAGCCCAAGC ACGGGCGGAA GACATACTGC CCCCATGAC   360
CCTCGAG                                     367
```

(2) INFORMATION FOR SEQ ID NO:1074:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074:

```
GCTTTATCTA TTTCATTTAA TCTAAATGTT TTCTGCAATT GTTTTTCCTT TAAACTTTGC      60
TTCAAAAACCT CTTCATCTAC TTGAGATCTG GGCATTGTGG TTTTGGTCT CGCATTTTCC      120
CTGCCTTCTG ATGGCTTAGC AGGGGACCCT TTCTTCTTTG GCTGGTGGG CTTCCTCGGA      180
TCAGTAATGT CCACATGCGG CTTCTGCAGC AAGGTTTTCT CTTTGTCTGA TACTGTAACT      240
CGGGGGGCTC TGTTTTCAAA GGAATGAGAG GCCTCTGGTT TTCGAAGCCC CCCTCTGCCT      300
TTGCTCACCA CTCGAG                                     316
```

(2) INFORMATION FOR SEQ ID NO:1075:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 435 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:

```
GAATTCGGCC AAAGAGGCNT AGAACTCGGA GACCAGAAAG TGAACCTCTG GGCAGAGATG      60
GNCTGCAGA GCCAGGTGTG GTCTCTGGCC ACACCCATGC CCATGGCGGA GAGCTCCNTC      120
TACCGGCAGC GGCTAGAAGT CATCGCTGTA AGTGACGCCC TCCCCGCGCC CTGGGCACCC      180
CCAAACTTTC CACCATGCTC CCTTCTCGTC TCTCCGTCAT CTCTGCGGAG AGCGCCCTCA      240
GCTCCAGCCC CGCCCAGGGC TCCCACACC AATTCTCCAG CCCCCTCTGC CCCCAGTTC      300
CTGTCTGGTC ACTACCACCC TCAGAAATGGG GAGCTGTGGC CCCCACACTT CCAGAGCCCTG      360
CATCGGCTAT GCCTCATTCC TGAACCCAG CCTCCCAAAA ACCCCATGCC TGAGCCGCAT      420
CTCCCGGACC TCGAG                                     435
```

(2) INFORMATION FOR SEQ ID NO:1076:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 310 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

```
GGAATTCGGC CAAAGAGGCC TAGTGGGAAA AGCTTGGATT ATCAAAACAC ACAACAAATG      60
ATAGAACCAG ATATATAGAT GATACAGTGA AGCACAAGGT CAAAATTTTA AAACGGGTGA      120
GCTCTTCATT AATGCATTAT TTTGTTTATT TAAGAGCTTT TTGTATGGAC TGACTGCAAT      180
AATTTTGAAA TTTCTCTTTA GAAGTTTAA TGTCTTTTA CATTTTCAAA TTTAGTTTTC      240
CATGAAAGTG AATAGGTTTT TATTTAAAT TTTTGTCTAG TCTTGGTGAA ATCAGATGGT      300
GACTCTCGAG                                     310
```

(2) INFORMATION FOR SEQ ID NO:1077:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 396 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

```
GAATTCGGCC AAAGAGGCCT AGGAAAACAA ATGGCTTCTT CAAGTCCTTG ATTTTGTGAT      60
ACACAGGATG CAGGGCTGTG TGTAAGGAAA GGCAGCGTTT TCCTCTCTTA GAGCCTCTGA      120
CTGACCTGAG GCGCAGGTGT TCCTGGGAGA CTGGAGGGTG GGCTCCATGG GGGTGTCTGG      180
GCCCCACCTG GCAGGGCTCT TGGCAGTGAG CCAGTGGAGG TTGCCTCCCA CGTGTGGCTG      240
GCCCTGTAGC CTGGCTCTGG AGAACCTGCA ATTCAAGCTG GAAGAGACTT TGGAGCAGCT      300
GGAGTGTGAG GTCTGCCTGG GTCTGGTGGG GAGTGTTTT ACTTTGCCAG TGATAGACTG      360
AAATGCCCTC TTTGAGGACA AGGTGGCTAT CTCGAG                                396
```

(2) INFORMATION FOR SEQ ID NO:1078:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 313 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

```
AGTGTTTTCC TGTATTTCAG CATATTCCTT GAAACTCTGC TGAAAGGAGG CTGTCAGTCA      60
GGGTTGTATA AATAGAGTCC TGGGTAAATC CTTGAAGCTT GTCATTCCAC AGCAAATCCA      120
CATGTTTCTT CAATGGCTGT TAGCAGCTTT TCATATAGCT TTTCATAGCT TTCATAGGGT      180
GGAATGTCTA TTCGATTGAA GCAAGTGTGG GCTTTCGGCA GGTGTGTAGT GCAGGCATCA      240
ATCTGGTGTA TGGTAAAGAG TCTCGGGCCT GCAGCACCTT GCAATGCTTT GAAGCCCTGC      300
AGAGGCACTC GAG                                313
```

(2) INFORMATION FOR SEQ ID NO:1079:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 354 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:

```
GAATTCGGCC TTCATGGCCT AAAAATGAAC TATAATAGTT CTAATTACC TCAAGTTTTT      60
CTAAGATAGC AAATAAATTG TAGTGTCACA TTAGCTTCCT AAGTAAGGCA AATTGACCTG      120
CAATAAAAGG TTCTAGTGTG AGACAAATTA AACCTTCAAC TTCCAACCTC GATTTCATAT      180
ATAATTCAAA TTGTCACTGA AGCTTTTATT AAGAATAAAA ATATATTAG TCTTTATTAT      240
TTTCTGTAAA TGACTTATTT TCAGATGCAC AATCGTGAAA TAATGAAGAT TTTGATCAGT      300
TGTTTTTGTC TTTTTCCTTT GAAAGGTATT TTCGCAAGAC CATTAAAACT CGAG                                354
```

(2) INFORMATION FOR SEQ ID NO:1080:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 641 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:

```
GAATTCGGCC TTCATGGCCT ACTCCGGTGG CTCCCCATC TCTCAGGCGC GATGGCTACG      60
GGCGCGGATG TACGGGACAT TCTAGAACTC GGGGGTCCAG AAGGGGATGC AGCCTCTGGG      120
ACCATCAGCA AGAAGGACAT TATCAACCCG GACAAGGAAA AATCCAAGAA GTCCTCTGAG      180
ACACTGACTT TCAAGAGGCC CGAGGGCATG CACCGGGAAG TCTATGCCTT GCTCTACTCT      240
GACAAGAAGG ATGCACCCCC ACTGCTACCC AGTGACACTG GCCAGGGATA CCGTACAGTG      300
AAGGCCAAGT TGGGCTCCAA GAAGGTGCGG CCTTGGAAGT GGATGCCATT CACCAACCCG      360
GCCCCGAAGG ACGGAGCAAT GTTCTTCCAC TGGCGACGTG CAGCGGAGGA GGGCAAGGAC      420
TACCCCTTTG CCAGGTTCAA TAAGACTGTG CAGGTGCCTG TGTACTCGGA GCAGGAGTAC      480
CAGCTTTATC TCCACGATGA TGCTTGACT AAGGCAGAAA CTGACCACCT CTTTGACCTC      540
AGCCGCCGCT TTGACCTGCG TTTGTGTT ATCCATGACC GGTATGACCA CCAGCAGTTC      600
AAGAAGCGTT CTGTGAAGA CCTGAAGGAG CACTGCTCGA G                                641
```

(2) INFORMATION FOR SEQ ID NO:1081:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 415 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:

```
GAATTCGGCC TTCATGGCCT AGCCCTTTTT GGTCTTCTAA TTAGGAATAT AGCATCTGCA      60
AATAATGACA GATTGTTTCT TCTTTCTAA TTCTTACAAC TTTTGTACT TTTTCTGTGTC      120
TAATATGCTG CCTAGAACTG TAGAGCTTCC TGCTCTTGTT CCTCCCTTTT TTTTATTCTT      180
ATTTTATAGGA GCAACCCTAT TAACTAAGCC TCACTCTTAA AGGGGAAGTT TTCACCACTA      240
AGTACCTTTT TAATCTAGGT TTTTGTGGA TACCTTTTAT CAGACTAATG AAGTTTAATA      300
TTGTTAAATA CTTTGAATTG TCTATATTAT GATGATAGTA TGCTTTTTTC TTTTATTAT      360
TAAAATGGTC CCAGGAATTT GTGAACAGCT TGGGCAATAC AGTGTGACGC TCGAG                                415
```

(2) INFORMATION FOR SEQ ID NO:1082:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 496 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

```
GAATTCGGCC TTCATGGATC CTGATACCAA ACTCATCGGA AACATGGCAC TGTGCTCTAT      60
CAGAAGTCAA TTCAAAGGAC CTGCCCCCAG AGAGACAAAA GATACAGATA TTGTGGATGA      120
AGCCATCTAT TACTTCAAGG CCAATGTCTT CTTCAAAAAC TATGAAATTA AGAATGAAGC      180
TGATAGGACC TTGATATATA TAACTCTCTA CATTTCTGAA TGTCTGAAGA AACTGCAAAA      240
GTGCAATTCC AAAAGCCAAG GTGAGAAAAG AATGTATACG CTGGGAATCA CTAATTTTCC      300
CATTCCTGGA GAGCCTGGTT TTCCACTTAA CGCAATTTAT GCCAAACCTG CAAACAAACA      360
```



GGAAGATGAA GTGATGAGAG CCTATTTACA ACAGCTAAGG CAAGAGACTG GACTGAGACT 420  
 TTGTGAGAAA GTTTTCGACC CTCAGAATGA TAAACCCAGC AAGTGGTGGA CTTGCTTTGT 480  
 GAAGAGACTA CTCGAG 496

## (2) INFORMATION FOR SEQ ID NO:1083:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 342 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

GAATTCGGCC TTCATGGCCT ATTCACAGGT TTATTGGCTT CTTCTTGAAA TGCCTGTTC 60  
 TGTCTTTTGG CCACTTTTTA TATGGGTCAT TTGTCCCTTA TTGATTATA AGGGTTCTTT 120  
 ATTTTITTC TAGATATTAA TAGTTTGGC CAGATGTTG CAGATGCTT TTCTCAATAT 180  
 GGCTTGTCTT TTCAGTTTGT GTGTCTTGAT GATCAGAAGA AGTTCCTCAT GTAGTTGATT 240  
 TATTGACCTT TTCCATTATG GTTTCACTC TTGACTCTA GGAGCTTAAT AAAAGCATGA 300  
 AATATTATT GATTGTCCAT TGCTAATCCG AAAACCCTCG AG 342

## (2) INFORMATION FOR SEQ ID NO:1084:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 374 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAATTCGGCC TTCATGGCCT AACTTACTGA ATGATAAAAC TTGCAGCTAA ATTTGTCTTC 60  
 AACACACCTT TCTCAGAGCA TCAATTACAT TATTCATTAA GGAATAAATA GCATCTCTAA 120  
 AGCATGTATC AACATCAGAA CTAAGCTTTA TGAATTATAC AGTGCATCTA GTGATTCTT 180  
 ATTCTAAAAG ATCTCTGGTG CCATCTACTG AATGCTTTTT AAAGGAAAAA ACATGAAATC 240  
 AAATAATAGA TTTTCACTTA ATTCAATTTT TTGTTTGTT TTAATTTTCA ATTACTAGAC 300  
 AGATCTAGGT TTATAAAGA ACTAAACAGG AAGTACAGAA TTCCCATATA ATCACTTTTC 360  
 CCCCAGACT CGAG 374

## (2) INFORMATION FOR SEQ ID NO:1085:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 343 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GAATTCGGCC TTCATGGCCT ACTGGAACAC CTTCTCGCTG CCGCCATACC CTGCCTTCTC 60  
 CAGCGACAGC CGCCCGTTCA TGAGCTCCGC CTCCTTCCTC GGCAGCCAGC CCTGCCCAGA 120  
 CACCAGCTAT GCCCCCGTGG CCACCGCCTC CAGCTTGCCA CCAAAGACCT GCGACTTTGC 180  
 TCAGGACTCC TCCTATTTTG AGGACTTCTC CAACATCTCC ATCTTCTCCT CGTCCGTGGA 240

CTCCCTGTGG GACATCGTGG ACACGCCCCG CTCCTGCCC GCTGACAGCC TCAACCAGGT 300  
GTCCACCATC TGGGACGATA ACCCTGCCCC CTCCAACCTC GAG 343

## (2) INFORMATION FOR SEQ ID NO:1086:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 531 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GAATTCGGCC TTCATGGCCT AGGGCTGACG CGCCACTATG TAGCGGGTTT CGGGCGGGCC 60  
 ACGCGTGCGG GACAGGAACC CAACCCAGC CGACCTTGAG CTCCAGGAGT TCGTCTCTTA 120  
 CGTCTGCGGA AGTGCACTG CCTCAGTTCT TAGCGCAGGT TGACAACTAC AGGCACAAGC 180  
 CATTGAAGCT GGAATGTCCT GTTGCTGGTA TTTCAATTGA CTTAAGCCAA CTATCCCTTC 240  
 AGTTACAATA GGAAAGTGCC TCTAATAAGG CCAAATATGC GTACTAACTT GTAGCAACCA 300  
 CGTGTCGGTG CAGTGCCACA GGAGCTAGAG CAGTGACAAT GCTGGTGGCA ACAGGGCAGT 360  
 GTAGCAGGTG CTTTATGTTT ACCTTTTCAA CCTTTTCATT TAATTGTGAC AACTCGGAGG 420  
 TGGATTCTGT TAGGGACAGG CTGCCCCAGG ACCACTCCGC CCCCCTAAC TCAATGCAGC 480  
 TGACCCCTAC CCTGAATACT CTGCAGCTGC ATTCCTGAAC CATATCTCGA G 531

## (2) INFORMATION FOR SEQ ID NO:1087:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 374 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GAATTCGGCC TTCATGGCCT ATGACTAGCC ACCAGGAAGG ACATTCCCTG CTCAGCTGTC 60  
 CCATTAAAGT CACCTGCTCC TCTCCTCCAC GTTAGTTTTC TTCTAGCCTG TTTATTCCTC 120  
 CCTGTAAGAG AAAAAGAGAA AAGCCTATTT CTATCTGATC TTTGAGATGC TTGCAGATCT 180  
 TACCTTTGAA GCATTCTCCT TATTGCAATA GTCTCCCTGA CCCTATTGCA ATAGTTCTCT 240  
 TCTCCCTGTT TGTATTCACC CATTGAGGCT GCTATATATA GCAAATACC ATAAGCTGAT 300  
 AGCTTATAGA CAATATAAAT TTAATTCCCA CAGTTCTGAA GCCCAGGAAG TCAAGATCA 360  
 AAGTAGGCCA TGAA 374

## (2) INFORMATION FOR SEQ ID NO:1088:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 288 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAATTCGGCC TTCATGGCCT AGGAATGTTT CCTTTGGTT CATTGTAGGC ACATCTGAAA 60  
 AAGAAGTTAT GAGTCACTCG TAGTGAGGTT TTAATTGACC TGTGACTGG GATCTCTGGG 120

GATCATTGGC AGTCTGTCTT ACACTGTTAT TTATAATTCA TGTCTGATCA TCTTCTTAAG	180
GAAGTCTGCA TCGTTTGCTT TATGTAGAGC ATTAAACACA AGGATCTGNC ACATTACTTC	240
TGTTGCCATT TTTGCTTCTC ATATCCCTGA CCACCCACCA CACTCGAG	288

## (2) INFORMATION FOR SEQ ID NO:1089:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 336 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC TTCATGGCCT AAGTAGTTAA ACTCATAGAG TTGCAAACTA GAAAGGTGGC	60
CCCCAGGGGT GGGCAAGAGA GAGGAGTGA GAGCTTGGTG AATGGGTGCC ATTTCCATT	120
TGAAAGATAA AACTGTTCCG GAGACGATGA CGGTGATGGT TGCTAAACAA TGTGAACGTA	180
CTTAATGTCA TGAAACTGTA AACTGAAAA CAGTGGAAAT TGTAATGTT TATACTGGCC	240
ATTCTATATG AACTAATATA TATTTATAAT TTTTAATATT TATACATGGT ATATTTTCCC	300
ACAATAAAGA TGAAAATTAA AGCAGTTGGT CTCGAG	336

## (2) INFORMATION FOR SEQ ID NO:1090:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 559 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GAATTCGGCC TTCATGCCTA CAGAGGCGAA AGGAGAGTCC AGTGAGAAAC CAGCCATTGT	60
CTTCATGTAC AGGTGCGACC CTGCTCAAGG CCAGCTCAGT GTGGATCAGA GCAAGGCTAG	120
GACAGACCAG GCAGCAGTCA TGGAGAAGGG TAGAGCAGAG AATGCATTAC TACAGGACTC	180
AGAGAAGAAG AGGAGTCATT CTCTCCATC ACAGATTCCT AAAAAGATTG TCAGTCACAT	240
GACCCATGAA GTAACAGAGG ATTTTCTCC TCGGGATCCA AGAACTGTTG TTGGGAAGCA	300
AGATGGCAAG GGCTGCATT CAGTCACAAC AGCATTGTCC CTACCTGAAC TGGAAAGGGA	360
AGATGGAAAA GAAGACATT CAGATCCTAT GGACCCGAAC CCTGTAGTGT CAACATACAG	420
CAACTTAGGG CAATCTAGAG CAGCCATGAT ACCTCCCAAG CAGCCACGAC AGCCCCAAGG	480
AGCTGTGGAC GATGCCATCG CCTTTGAGG GAAAACAGAC CAAGAAGCAC CCAATGCTTC	540
CCAACCTACA CCACTCGAG	559

## (2) INFORMATION FOR SEQ ID NO:1091:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 398 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GAATTCGGCC TTCATGGCCT ATTCTTATGT GTGTTTCAGG ACGACTGGGT TTGGATTGAG	60
---	----

AAGAGGATTA TTATACACCA CAAAAGGTAA AATCAGAAGC AACTTATTTT TAAAACCTAT	120
CTTAAGTCGC ACAGACTCCA TAATATGTCC TCTTTCCTTG GCTCTGTTGT ATCAAGGTGT	180
TTATTTCGA AGTGTTTCCT GTTTGGGAGA CTGACAATTT AGGATTCCTG ATTTAGCACC	240
CTGTGGTCTT GTCATCTGAC CAAATCACAG AAAATTGAGA AAGTGGATAC AGCGACTGTG	300
GACATTGTGA AGTCACATCT TACTCAGGGA TGACAGCTAA AATCAGCGTG TACAGCAGAA	360
AAGTCACATA TAGCTACAAA TACCCTGGAA AACTCGAG	398

## (2) INFORMATION FOR SEQ ID NO:1092:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GAATTCGGCC TTCATGGCCT ACGAGTTTTC TGCAAGTCAG CCATGAAGTC TATGCTCTGC	60
TTCAGGCTCT GAATTCTTTC CTGGCTAAGA ATTTTCATTC CTGAGTGCAA CAGCTTCTTT	120
GCAGCTTTAT AATAAATGGT CTCTGGTTTA TTGTAAATCA TGGCATTAGT ACACATTAGT	180
TTGAAGTTAT CCTTTAGTTC TTCTATGGAC TGATAGTCAT TGTCTTGAT CTTTCTTTC	240
ATGGTACTAA AATCCATTGG GTGTTTAATG ATCATGGAGT AGCCAGGAGC AATAAAATCA	300
GTCACAGGAA ATGAAAAGAA AGCACTTGA TCTTTCTCT GCAATTGTCT CATCAGTTGA	360
TTCAAAGCTT CTTGAAGGGG TGTCTGTTCT ACTTCTTCT GTTTGGCTAA AGAGCTTGTG	420
AGAGGCTTCG CTCGAG	436

## (2) INFORMATION FOR SEQ ID NO:1093:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GGGGCAGGGA GCCTGGCCAG GCCTGAGACA CAGAGGCCCA CTGCGAGGGG GACAGTGGCG	60
GTGGGACTGA CCTGCTGACA GTCACCCTCC TTCTGCTGGG ATGAGGTCCA GGAGCCAACT	120
AAAACAATGG CAGAGGAGAC ATCTCTGGTG TTCCCACCAC CCTAGATGAA AATCCACAGC	180
ACAGACCTCT ACCGTGTTTC TCTTCCATCC CTAAACCACT TCCTTAAAT GTTTGGATTT	240
GCAAGCCAAT TTGGGGCCTG TGGAGCCTGG GGTTGGATAG GGCCATGGCT GGTCCCCCAC	300
CATACCTCCC CTCCACATCA CTGACACAGC TGAGCTTGTT ATCCATCTCC CCAAATTTT	360
TCTTCTTTG TACTTCTGT CATCTCGAG	390

## (2) INFORMATION FOR SEQ ID NO:1094:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 559 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

```

AATTCGGCCT TCATGGCCTA GAGGGATTG TTAACCAGTG CCACCATGTA GTTCTGGA   60
CGGAGGATGC GGTGGTAGAT GTCCAGTTCT GTCAGCTCAC GTTTGTGGAT GCAGATCTGG   120
TGCTCCTTCT GCGTCTGCAC GATCCGGGCC TGCACTTCTT GCCACGTGCA ATACGGAAGG   180
GCAGACATAG GGATGCGCAG AGCGTGCAGG TAGAAGGAGT GGATCTCCCA GTAGCAGCAA   240
ATGTTATAGA TGAAGTTGAT AAGCCGGTGG ATCCAGAAGA CACCAGCAAT GACCAGGATG   300
GTGATAAGGG AGCCATTTTC CTGAATCCTG GCACTACAGA CTTGAGCAGG CAAAAAGGCG   360
TCTGGCAGAG TGACCTTGAC GGGTTCAGTA GGGTGAAGAC TGTGGTTCAC CATCTTGTG   420
GCAATAGGA TGTCATAGTC CACGAGCTG ACCAGGAAGG TAGTGAAGGC AACCACAAAG   480
AGGAACTGCA TGAGCTCAA GATCTCCCG ATGAGCATA ATGTGAAGCC ATTCTTCTGG   540
TGCAGATTAT AAACTCGAG                                     559

```

## (2) INFORMATION FOR SEQ ID NO:1095:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 224 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

```

GAATTCGGCC TTCATGGCCT AGGTTTGGAA AGTAAGACAT ACTGGCTTCC TTTATTCA   60
TTAGCATTTT CCTATTATTT TGGAACCAAC AATTCCATGT TCATTGAATT TCCTTTTTTT   120
TTTTTTTTTT AAAGACTGCA AATTTTGCT GGGCAGAGTG GCTTGACTCT GTAATCCTAG   180
GTACTTAAGA GGCTAAAGCA TGAGGATCAC TTGAGGGACT CGAG                                     224

```

## (2) INFORMATION FOR SEQ ID NO:1096:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 534 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

```

GAATTCGGCC TTCATGGCCT AGTTCTCTCT GATTTGGTTT GTTCTGTCTC AGGCTTCTGT   60
GGCAGGACTG GCCCAGGGAG GAGGAAGCCA GCAGCACACC TGGGGAATGG GGTCCCGGCC   120
GGGAGGCTTG GCCTCTGGGC GACCTCGTCC TGTTTTGTTT GTTTGTTTGT TTGTTTTTTT   180
AAAGGTAAAC CTCCTGGGCC GCAGATGGCA AAGGGAGTGC CTGGGCCTGG TGACCCAGGG   240
CTGGATCCAC CCCTGCGGAG CCCTGGGCCA GGCAGGTGTC TGCTGCTCAC CTGGCTCTGG   300
AGGGCTGCCC TGCAGCTGGG CCTGGGGACA GGTGCGCTGT GGGGCAGCTC AGTACCCTCC   360
CTGAGGCTCA CGGTGGCTCC GAGCATGAGC TCTGCCTCCT GGGCGAGACC CAGCAGTGGA   420
CAGCACGGTC CTCACACCCA GTCCTTGCA CACCCAGGCC AGCCACCCCT CCCGCTCGTG   480
CACAGGCACG CAGATGCGCT CACACGTACA CACACACAAA TGCAACGCCT CGAG                                     534

```

## (2) INFORMATION FOR SEQ ID NO:1097:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 606 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

```

GAATTCGGCC TTCATGGCCT ACTTTATTGG TGGACATTAA GAATGGAGGA ATGTTTCAAC      60
AAAGGAACAA TCAACAGTAT CAAAATACTG CAGAGGGGTC AATTGGGGA CTAAGAGGGG      120
AGCCACTGGA TTTGACAACCT AGGAGATAAA TTTTAGTGCA ACGATGAAGG CAGAATCCAG      180
AGTATAATGA GCTCAGTGAA AAAAGGTGAA NACATGTAGC TTATTCTCTC AAGAACTAG      240
GCTATGATAA ACTGGCAGAG GCTCTAAGAG TGGGAGGTGA GTTGTCTTCT CCTTCATGTA      300
AATATATTTA CCTTTTAAAC ACTAGGCCCA ATTTTATATC CTATTCATT TAACTTTATG      360
AACATATTTA TGTATGTATG CATGTATGTA TGTATCTCAT GTGATGTTT AGACACTGAA      420
AAATAACTCA TTTCTATTAT AAAACTGATA TCTTTAGATG TTTCAGAAGC AACTTCCTAA      480
AAGGAGGTAG CAGTAATGGA GCTATGTCTA TCATTCTTTC CCATCAACCC CCTTGATGGA      540
GATGTAAACA TGTGTCCATC AAGCCTTTAA TTTTACNTC TTATCTTCAG GGCTCTGCCG      600
CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1098:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

```

GAATTCGGCC TTCATGGCCT AGCAGAACAT GGATATTTTT CCTTTAATAT TTAGTACTTG      60
GGCTATCATG AAACAAGGTT AGCATAACCA TCCAAACCC CAAGTGCTCC AAAATCCAAA      120
ACTTTTTTAA CACCAACACG ATGCCCAAAG TGGGAAGATC CATACTTGAC CTCATGTGAT      180
GGTCTAAGT CAAAATGTAG GCAAACTTT CACGCACAAA ATTACTTAAA ATATTCTACT      240
GAGCCAGGCA TAGTGGTTCA TGCCTATAAT CCCAGCACTT TGGGAGGCTG AGATGCCAAT      300
TGCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1099:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 484 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

```

GAATTCGGCC TTCATGGATG ACCGCAGCAG GCTGGTCAAG CAGATGGAGG ACAAGGTGTC      60
TCAACTGGAG ATGGAAGTGG AAGAAGAGAG AAACAACTCA GATTGCTGT CTGAGAGGAT      120
CAGTAGGAGC AGGGAACAGA TGGAGCAGTT GAGGAATGAG CTACTTCAGG AGAGAGCTGC      180
GAGACAAGAC TTGGAGTGCG ACAAGATTTC CCTGGAGAGG CAGAACAAGG ACTTAAAGAG      240
CCGGATTATC CACCTGGAAG GTTCCTACAG GTCCAGCAA GAGGGGCTGG TTGTGCAGAT      300
GGAGGCCAGG ATCGCGGAGC TGGAGGACCG CCTGGAGAGT GAGGAGAGGG ATCGGGCCAA      360
TCTTCAGCTC AGCAACCGGC GGCTGGAGCG GAAAGTGAAG GAGCTGGTGA TGCAGGTGGA      420
TGATGAGCAC CTGTCATTGA CTGATCAGAA GGACCAGCTG AGCTTGCGTT TGAAACCCCT      480
CGAG

```

## (2) INFORMATION FOR SEQ ID NO:1100:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 431 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

GCAGATTGAG GACCTCCAGA AATCTTTACA GGAACAAGGT TCCAAGTCTG AAGGCCGAAAG	60
TTCCAGCAA ATTAAAGCAG AAGTTGGAAG CTCATATGGA AAAACTCACA GAGGTCCATG	120
AAGAATTACA GAAGAAACAA GAACTCATTG AAGATCTTCA GCCAGATATA AATCAAAATG	180
TACAAAAGAT CAATGAACTT GAAGCTGCTC TTCAGAAGAA AGATGAAGAT ATGAAAGCAA	240
TGGAGGAAAG ATATAAAATG TACTTGGAGA AAGCCAGAAA TGTAATAAAA ACTTTGGATC	300
CCAAGTTAAA TCCAGCATCA GCTGAAATAA TGCTACTAAG AAAGCAGTTG GCAGAGAAAG	360
AGAGAAGAAT TGAGATTCTG GAGAGTGAAT GCAAAGTAGC AAAATTCCTG GATTATGAAG	420
AAAAACTCGA G	431

(2) INFORMATION FOR SEQ ID NO:1101:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 557 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

GAATTCGGCC TTCATGGCCT ACTGGGAATC TCTCAGCAGC TTTTGGCCAA ACAGATGGGC	60
CAGGAGCCGC GGAACCAGGC TGAGGAATGT TGCCTCACGA TCTCTCATAT CCATTCTTGG	120
CACCCACCAG CCCAGGGAAT GCCTTACCA GTTGTGACG AGAGGCTTAC ACAGCATCTT	180
AAATAAAAGG GATTATTGAA CCAAGAGGCC AGGGACTGAT GGAAATGCCC ACCTTGCTGG	240
CTCATTGAAA AAGTTTGGA AGGTTGTCAG GAGACATGAA TTAGATGGGC TTGGGTCTTG	300
TGCCCTTTGC TAAACCAAGT GCTGTATTGG GAAAGAGACG GGGAGAGAAG TGTTGGAGAT	360
GCTCTTTAGT CAGGCCTGAG TCACTTGCCC AACCCTGGAG TTGGAGTTGG GGATGGAGCC	420
AGGATCTCCA AACCACATGC CCCTAGAGTT TCAGGGAAAA TATGGATTGT GAATTGAAGA	480
TGGGGGGTGA TGTAAGGCAG ACAAGGACAG AAAATCCCTC TTCCAGCTGT GATTGGCTG	540
TGAGTTTGGC GCTCGAG	557

(2) INFORMATION FOR SEQ ID NO:1102:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 577 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

GAATTCGGCC TTCATGGCCT AGTTTTTCTA GAGTGAATTA TAGTATTGAC GTGAATCCCA	60
CTGTGGTATA GATTCCATAA TATGCTTGAA TATTATGATA TAGCCATTTA ATAACATTGA	120
TTTCATTCTG TTTAATGAAT TTGGAAATAT GCACTGAAAG AAATGTAAAA CATTTAGAAT	180
AGCTCGTGTT ATGGAAAAAA GTGCACTGAA TTTATTAGAC AAACCTACGA ATGCTTAACT	240
TCTTTACACA GCATAGGTGA AAATCATATT TGGGCTATTG TATACTATGA ACAATTGTGA	300
AATGCTTTAA TTTGATGTAA ATAACCTCTGA AACAAGAGAA AATGTTTTTA ACTTAGAGTA	360
GCCCTAAAT ATGGATGTGC TTATATAATC GCTTAGTTTT GGAAGTGTAT CTGAGTAACA	420

GAGGACAGCT	GTTTTTTAAC	CCTCTTCTGC	AAGTTTGTG	ACCTACATGG	GCTAATATGG	480
ATACTAAAA	TACTACATTG	ATCTAAGAAG	AAACTAGCCT	TGTGGAGTAT	ATAGATGCTT	540
TTCATTATAC	ACACAAAAAT	CCCTGAGTGA	CCTCGAG			577

## (2) INFORMATION FOR SEQ ID NO:1103:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 298 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC	TTCATGGCCT	ACATGGACCT	CCTGCACAAG	AACATGAAAC	ACCTGTGGTT	60
CTTCCTCCTG	CTGGTGGCAG	CTCCCAGATG	GGCCCTGTCC	CAGGTGCAGC	TGCAGGAGTC	120
GGGCCCAGGG	CTGGTGAAGC	CTTCGGAGAC	CCTGTCCCTC	ACCTGCACTG	TCTCTGGTGC	180
CTCCATCAGT	AGTGGTGGTT	ACTACTGGAG	TTGGATTTCG	CACCACCCAG	GGAAGGGACT	240
GGAGTGGATT	GGGCGAATCT	CTCACAGCGG	GCACACCAAC	TACGACCCCT	CCCTCGAG	298

## (2) INFORMATION FOR SEQ ID NO:1104:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:

GAATTCGGCC	AAAGAGGCCT	AGTCATCTTC	AATATCTCTC	TCTCTCATCC	CTTCATTAAA	60
TCATTCACCA	AGTTTTGACA	GTTTTCTTTT	GCAATGTGTC	TCCAAATGGT	CATCCTCTTC	120
TCCTTTTTC	GATTAGGATT	CTTGTTTCT	TTACTCATTG	GTAACAACAG	TTGGGAAAT	180
GCTAGTTACG	CAGTTAATGG	TGTAGTTACC	GCAGGACTTG	ACAAAACCTC	TAATGAAGA	240
ATAAAACATT	TGCTATATTT	GTTTGATCAG	AGAAACTTTT	TTCCATCTCA	GGGGATCATT	300
CTCGAG						306

## (2) INFORMATION FOR SEQ ID NO:1105:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 535 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:

GAATTCGGCC	AAAGAGGCCT	ATAGGCCTCT	TTGGCCGTCT	AAATGAAATG	ATTGCACTGC	60
ACATACTTCT	AAAACGTGCC	TGCGATTGTA	TAGCTTCCAT	TTCATGGCGC	TTCTTCTGGA	120
TGTCAGGCAC	TAAGTCGGGC	GCTTTATTCT	GTAGTTCTCC	TAGCAATCTG	GTGAGCTCCA	180
CTCTACAGAT	AAGGAAATCG	AGGCCAAGGA	CAGCTAAAGA	AGCGAGGTGC	GCAAGGTGCC	240
CAGGTCCGAA	GTGTTTCCGC	TGCTTTCAGA	CTGCAGTCCC	AGGGCTCAGG	AGTCCATGCT	300
TTCTGCGTAT	CTTCACGCTG	GCCACGGATC	ACCTCATCAT	TAGATGTCGA	AGTTGAACAA	360



GTGGTGTTC	CATTGGACG	TGTGTTAGGT	AGAAGTGTGT	GTGCACCTGC	GTGTGCGTGT	420
ATGTTCCACA	CGCTGATGCA	GGAGGTATAC	GCACAGATAT	AATTGTCTTT	TAGAAGATTG	480
ACTATCACTA	ATTTTGAAAA	ATTTCCTGAA	TGACCTTTCC	GNCCCGGCGC	TCGAG	535

## (2) INFORMATION FOR SEQ ID NO:1106:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 586 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:

GAATTCGGCC	NAAGAGGCCT	AGAAAAAATT	AAAAAGGGAT	ACAGACGAGC	TGCNAGCTAT	60
GGAACATAGA	TATTAACCCC	CAAAGAGTCN	TAACCACAGC	TGACTCTTAG	CTTCACAAGC	120
AGNCCTCNGA	ANGTGGTAGC	TTGTTTTAAG	CAGAGGCCAT	GCAGAACCCA	TGAAACCAAA	180
GGACAGAGCC	AGTAGGGCTG	GAGTCTGACC	AGAAAGTTCC	ATGCCCTCTG	CTTTCTGCAT	240
GGAAAATGAC	CTGGTAGGTT	TTAACCTATC	CAAGACTACA	GAGGATTTC	GAATTTTCAGT	300
TTGAGGTATG	CCTCAAAACA	TTCCAGCCTT	GATCATGAAA	GAAAGAAGTG	ATCAAAATAC	360
CATATGTCAC	AATGGAAAC	CCAAGCGGCC	CCAGAGCTCT	TCTTCAGTAA	TGAGATTAG	420
TTGATCTGNA	CAGTTATTTA	TGCATTGAGG	TCATATTTTG	GCCAATCTTT	TGCTTACAGC	480
TGTCGCCAAA	TAAAGCCTTC	TGTNTTAGCA	TTTCTTTTAC	CAAAATCAGG	TTGAGAGATG	540
GTTCTTTGAG	AGGACTGTTT	TGTCAGGGAA	TACAGGGAAT	CTCGAG		586

## (2) INFORMATION FOR SEQ ID NO:1107:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 433 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:

GAATTCGGCC	AAAGAGGCCT	AGGACTTAAA	AGAACAGCTA	GAAAAGATGA	AAGGTGACTT	60
AGAAAGTAAA	AATGAAGAAA	TACTACATCT	GAACCTAAAA	TTGGACATGC	AGAACAGCCA	120
GACTGCTGTC	AGCCTCAGAG	AACCTTGAGG	AGAGAACACG	AGCTTGAAGG	TCATATATAC	180
CAGAAGTTCT	GAGATTGAAG	AGCTGAAAGC	CACTATTGAA	AATCTGCAAG	AGAATCAGAA	240
ACGATTACAA	AAGGAGAAA	CAGAGGAAAT	TGAACAATC	CATGAAGTCA	TTGAGAAGCT	300
GCAGCACGAG	CTGTCCCTCA	TGGGGCCTGT	GGTGACGAA	GTCAGCGACA	GTCAGGCTGG	360
CAGTCTGCAG	AGCGAGCTGC	TCTGCTCCA	GGCCGGGGGC	CCTCGTGGGC	AGGCCCTACA	420
GGGCGAGCTC	GAG					433

## (2) INFORMATION FOR SEQ ID NO:1108:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 316 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:

GAATTCGGCC AAAGAGGCCT ACGTGAATAT TTTTCCATCT GTGTTTCATTG ATGTTAACAA	60
TAAAAATCTT GTTTATGTGT ATAAGCCTAA CATATGCCTG TGGGTCTTAT AACTGCCTGT	120
TCAAACCTCA TGGGATACCA AAAATGTATC TGCTTACTTT GGGGGTCTAA CTTTAATTCTG	180
GTACATATAA ACATCTCTGG AAAAAAATGT AGTTTTTTTC TTCCCCCTGC TGTTTTCCCC	240
AGGCTTTCTC CTTTGACCTG GCCACGGTTC CCATAGACTA CAAGACGACT TAGAGACATT	300
GCTGTGACAT CTCGAG	316

## (2) INFORMATION FOR SEQ ID NO:1109:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 368 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:

GAATTCGGCC AAAGAGGCCT ACTAACATTT TCCTAATCTT ATGTGTTTGG CTCCTCTCAT	60
TTACTCCCCA CAGCAGCCAC ATGAAGTTGG AATTTCGAAC TCTTATTAG GTATGCAAAA	120
GGGTACCACT TCTCTTTAAG GCTTTAGTTC AGGAGTGGTG TTAATGTATT AATGTGTTGG	180
GGCGCGAGAG GAAGGCGGTG CTTATTTCGA ATCATGGTAG GTAAAGATAA TTTCAACTCT	240
GACACTTCCA CTAATAAATT TTCGCATCTA GGGAAAATGA CGTAAGCTTC CTAGATCACA	300
GATTGTGTTT CATCCAAAAC CCGAAGTCTG GTTTTGAAAT CACGCTCTTG ATACAAAGGT	360
GGCTCGAG	368

## (2) INFORMATION FOR SEQ ID NO:1110:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

GAATTCGGCC AAAGAGGCCT ATCCGGGGGG AGTAAGGTGA GGACAAGGAA CAGAAAGGCG	60
TGAGGTGATG GAAGGAAGTC CGGGAGAACC ATATGAAGGA GCAGGAGGAG AGGAAGAAAC	120
TTTTTTTCTT TCTTTTCCAG GAGTAGCTGG AAATTAAGAT CGGGTTCCTT TTCTGCCAGC	180
TTGGAAGGGC AACCCCATGA CTGATTGCGA TTCTGAGGAT GTCTATGCAA AGTTGGATTTC	240
TTGTTACAGT GTATCCAATC TGAAGTATTG CACATCTGAA CTGGGACTGT TAACACTGAT	300
GCCAATACAG TGTGGGGTGC CAGAAAGTGT CTGCTGATAT TTGTGGAAAA AAAATCTATT	360
TTGTTTACCT ACTGTATCAA AGGGGAGGAA CTCGAG	396

## (2) INFORMATION FOR SEQ ID NO:1111:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 427 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

GAATTCGGCC	AAAGAGGCNT	AGATTGTTTT	CATTAGCAAA	CTCATAATTA	TCCTTTTCCT	60
TAACACTTCC	AGTTGAGAAA	ACAAGTATTT	GTTAATGACC	AGTAATAATC	TTGATCCAGG	120
GTAGGCAAAA	TTTTTCTTCC	AGGGCCAGAT	TGATACTTTA	GGCTTTGCAG	GCCACGGGGT	180
CTCTGGCAAC	CCCCAGCTCT	GCTGTTGTAG	CACAAAAGCA	GCCACAGGCA	CAAGTAAACA	240
CATGGGTGTG	TCTCTGTACC	AATAAAACTT	TATTTACAGA	AACACAGGGC	AGATGACTGT	300
CTGGCCCTG	GTCTTGTGAG	CATTTTGTGG	TGGTGAACAA	AAGAACTGT	TCAGATCATT	360
ACATTTACAG	TCATTACCAA	AAATAGAATC	TTACAGTAG	TTGTACTGTT	GATGAAGCAA	420
GCTCGAG						427

## (2) INFORMATION FOR SEQ ID NO:1112:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 504 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

GAATTCGGCC	AAAGAGGCCT	AGGTATAAT	AGCAGCTTAC	TTTTGATAAG	CGTACTAACT	60
GGTACATAGT	AAATACATAC	TGTGCATGCA	TTATGTCATT	TATATCCACA	CAGTCACCTT	120
CAAATTCAGT	ACAATTGTGA	TTCCCGTTTT	ACAGATGAGA	AAGCATATTT	TGGTGAAGTC	180
AACCAAGGTT	ACATGACTAG	TAAATTTTAA	ATGAGATTTA	ATTTCACTAC	TTACTAACCA	240
TTATGCAITG	CTAAATTGGA	ACATTACTTT	AAAATATAAC	TTCTAAAGTG	TTCATATTAG	300
AAACCTATAA	ATATACATAG	ATTTGTCTCC	TCTCTNACGA	AGAACACATG	AAGGAAAGAA	360
AGATATTAAT	TTGGTGGCTT	ATCATATGCC	AGACATAGAT	ATAGATGCTT	GTATGTATGG	420
CATTTAATCC	TTATCTGTGA	GGTAGGTCTT	TTTATGCCTT	TCTATAGATT	TAAATTAAG	480
GTTCACTTTA	GTAACCTGCT	CGAG				504

## (2) INFORMATION FOR SEQ ID NO:1113:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 369 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

GAATTCGGCC	AAAGAGNNCT	AGAGGGATAT	AGAAACTTAA	CAGCAGTGGC	TGACATTTTT	60
GCTTATTTGT	TAGGTATTGG	TGGTGGTGTT	AATCGGGTAC	GCATATGCTT	TCCTTAGGAT	120
TTGCATTTCG	TGTTCCCTGT	GTCTAGAACG	CTATTCCTTA	GATAAATCTT	CATTCCTTAC	180
CTCCTTAAAA	TGTTTTCTCA	TCTATCACCT	TCTTAAGTCT	GTAAGTATCA	CCCTACTTAA	240
AATTATAACT	GCCCCCTCTT	GCTTGCACTT	CTAAGCTTCC	TTACCCCTAGT	CTGTTTAGCA	300
GTTACCTCCT	TGAAACATGC	TCTGTAGAAT	TTACTTATTA	TGACTATTGT	CTCTCTTACT	360
ACCCTCGAG						369

## (2) INFORMATION FOR SEQ ID NO:1114:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 89 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

GAATTCGGCC AAAGAGGCCT AGTTAAAAAT AGAATTTGAG ATATTTAATT TTCTGCTCTT 60  
TTTAAGTTAT GAAACGTAT TTAAGTCGAG 89

## (2) INFORMATION FOR SEQ ID NO:1115:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 495 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

GAATTCGCCA AGAGCCTATT AATTTGTAAA CCTTAATATA GTGTAACTG AATAAAAGTA 60  
AATAATTATT ATTAGAATGG TAACTAAGTC ATTAAATTTT TTNGCAGAAC TGAAACTTGT 120  
ATGTTATTAG TTTATTTTCT TAGACCAGTG TAATAATGGA CTGTAAATAG AAAAAATAAT 180  
GTCACTTTAC AGTTAGATGT ATCAGAGTCG TTTCCAGGAGA ATTTTTCCTA TATTGTTACC 240  
TTGATTCAAT GTTTAAATTT GGTAGGATTT GTATAGATAT AGGATAGTGT TTTATTATATA 300  
CTTTATCATA AGCCATAATC ATTTTAAGAA TACTTTATG GATAGATTTT AGTACTTTTT 360  
AAATCTAAA GTTCTATTTT TCTTTTCACT TCCCCTTCCT TCCCCTTATA AGATCATTTT 420  
CATGTCCTTG TTGGTGATCT CAGCCCAGAA ATTACAACCTG AAGATATAAA AGCTGCTTTT 480  
GCACCAAGTC TCGAG 495

## (2) INFORMATION FOR SEQ ID NO:1116:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 522 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC AAAGAGGCCT AGGGAAAAGA AGGGCTTTGG GGACCTGCCC ACTTCAAAAA 60  
CAGTTTTTCT CATCCTTTGC CTTCGGCTCC AAACCCAGCT TGGTGTTTTC CTAAGGGAGC 120  
TACAAATCTT GGAGCATCCC ATGAGGATGA TTTGCTGGCC TCGGTCATTA GGGGGAAAGG 180  
ATGTTCTCAG AAAAACAGCC CTGCACGCTG GTCAGCAGAG ATCTTGAGGT CGTGGCCACG 240  
ACTGGACTTG GTGCAGAGCT GAACCCGAGA CTCCAGCTGC TCGCTGAGTT CGTCCAGAGC 300  
CCCGGTGCAG GACTCCAGGC TCTGGCCAG TTTCTGAATC TTGGCCTTCA GCACGGCCTG 360  
GCTAACCTTG GTGTCCCCCT CCGCCCGCCT GGGGATGAGG AAGCCACGTG AGCCAAAGAA 420  
GACGATGAAG TAGACAGAAT TGTACAGGC GATGGAGGCG TTCCTCCCGC ACTGCAGCAG 480  
CTGGCGGTCC CCGCAGCCCT GCCAGCGCA GAAAAACTCG AG 522

## (2) INFORMATION FOR SEQ ID NO:1117:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 352 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAATTCGGCC	AAAGAGGCCT	AAAAATATTT	TACTTGTTCC	ATCCACAGTT	CTCTACAGAA	60
AGAACCAATG	AACCCAATAG	GAACAAATTC	TCTGTGGAAG	ACAAAGCATA	GCTGTAGTAG	120
ATACGAATCC	AATCACAGAG	GAAACAGGAA	GAGAAAAACA	TCCAAGACTA	TAGTGAAAAAC	180
TGGAAATGGT	CTGTTTTCGT	GATATTCGTA	TGATTAAGAT	GCAAATTTT	TCTTAGGAAA	240
ATGTGATTGT	TAAC TAGCAT	TCTGTTTAC	ATGTTGACAT	TTCTAACACA	CACACCACTG	300
ATTTGAACCT	CAAAATTTAT	TTTCTGATTA	TATATGCTAG	GTCATGCTCG	AG	352

## (2) INFORMATION FOR SEQ ID NO:1118:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

GAATTCGGCC	AAAGAGGCCT	AGTGCCCACT	CATTATGTA	CTGTCTATAG	CTATTTTCAT	60
GCTACAATGG	CAAAGCTAAG	TAACACTCAA	GGCCTAAAAT	ATTCCTATA	TGCCCTTTGA	120
AGAAAAAGTT	CACTCAACTC	TGCCCTAAAC	TACAGACCCT	GGCCAAGGTG	GGAGGATCAC	180
TTGAGGCTAG	TAGTTCAAGA	CCAACCTGAC	TCTGTCTCTG	ACTCTGTCTC	TACCAAAAAA	240
AATTAGCTGG	GCGTTGGGCT	TATCCCTGTA	ATCCCAGCTA	CTCAGGAGTC	TGAGGCAAGA	300
GGATCACTTG	AGCCCAGAAG	TTCAAGGACA	CAGTGAGCTA	TGATTGCACC	ACTATACCCC	360
AGCCTGGGCA	ACAGACCAAG	ACCCTGTCTC	TAAAAACATA	AAATAAAAAA	TAAAAAATAA	420
AAATAAATAA	TAAAGAAAAA	AGAAACAGAA	TTAAAGAAAT	TCTTTTGCTC	AAAGTCTCGA	480
G						481

## (2) INFORMATION FOR SEQ ID NO:1119:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC	AAAGAGGCCT	AAGTTGTGTC	AGTGTCTCTC	CTAAGGTAGT	AAATATAATT	60
GACTTATTCT	GAACCCATTC	TATTTTGAAT	CTCCCTTTTC	CTCTCACAAT	ACTTGAACAT	120
TTTAATCTTT	TGGAATATTG	TCTTTCTTTG	TTATAACTAT	TCATTTTITAG	CTTTTGTCTC	180
CAGTGCATGA	TCTCATATTT	TTGCTTTTAT	TTTTAGTATA	AGAACATTTA	TAAAAATCATA	240
TTTTTGTTAC	TGCAATTGTT	TTATTTGTTG	TGTGGCAAAT	GAGAAATCCT	TTATTTATTG	300
TGCTGTATCT	CGAG					314

## (2) INFORMATION FOR SEQ ID NO:1120:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

GAATTCGGCC TTCATGGCCT ACCAGATACT GTTTTTTTAA TACATATTCA AAAGAAAGCT	60
ATTAACCCCTG ACAGACATT CTCAGTCTGT GCTTTTTTCT ATTTTATCAT TTAAAGTAC	120
TTAAGATAGA AAGATGAAA AGCATTGTGTT GGCTACTTGG TTAGCTTCAC AAATTTTCCC	180
CCTTCCTACG CAGCTCGAG	199

## (2) INFORMATION FOR SEQ ID NO:1121:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 295 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

GAATTCGGCC TTCATGGCCT AGTAGCATAT TAACAGTGTA ATAAAAATA AAAACAAACT	60
CTAGTATCCA GAGGATCACA TGCTGACCAG ACCCTGTGTA GAAAGTGCCG AAGAGCATCA	120
AGGAAATGGA AACGTTGGAA TTCCATCCGT GCTTGTGGCT TCCTTAAAC TTTTGTATG	180
GAAAATTTC AATATACCCC GAAGTGGAGA TTGGCTTAA TCAGCCCCAC GTGCCCATCA	240
CTCGCTCCA GTCATTATCC AGTGTGGTTC CTCTGATCT CACCACCCC TCGAG	295

## (2) INFORMATION FOR SEQ ID NO:1122:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 410 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

GAATTCGGCC TTCATGGCCT AACGGAAGCG TCTCCTCATT GATGGAGATG GTGCTGGAGA	60
TGATCGGAGA ATTAATCTGC TAGTGAAGAG TTTCAATAAA TGGTGCAACT CTGGGTCCCA	120
GGAAGAGGGA TATAGCCAGT ACCAACGTAT GCTGAGCAG CTGTCTCAAT GTGAATTTTC	180
AATGGGCAA ACTTTACTAG TATATGATAT GAATCTCAGA GAAATGAAA ATTATGAAA	240
AATTTACAAG GAAATAGAAT GTAGCATAGC TGGAGCACAT GAAAAAATTG CTGAGTGCAA	300
AAAGCAAATT CTTCAAGCAA AACGAATACG AAAAAATCGC CAAGAATATG ATGCTTTGGC	360
AAAAGTGATT CAGCACCATC CAGACAGGCA TGAGACACAG GGAACTCGAG	410

## (2) INFORMATION FOR SEQ ID NO:1123:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

GAATTCGGCC AAAGAGGCCT ACCTTTCTTT CCTCCCTTCC TCCTCCCATG TCCCTCTCTC	60
---	----

CTCCCTCCCA CCTCTCACCC TTCTCCATCC CTCCTCCCTC TTTTCTTTTG TACTTTCCAG	120
CTGGAGCAGC AGCAGCAGCT GGGCCTGAAT CAATGATTGA CTCCCCCAG ACCTCCCCCTT	180
CTCTTTTGCC AATGATATCT CTTTGCCCTT CCAGTCATCT TTTAATTTTA TCGTGTATGG	240
TTTTGCTTCT CCTTCCTCTT CCTCTCTCTT TCCCTCTTTC TCCCCCTCT CCCCCACCGA	300
CAGTCGAG	308

## (2) INFORMATION FOR SEQ ID NO:1124:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 445 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTGGGCC TTCATGGCCT ACAATTTTGC CATGGTTCTG CTCATTTTTC CTGCAATTCT	60
CAGCATGGAT TTATATCGAC GCGAGGACAG GAGACTGGAT ATTTTCTGCT GTTTTACAAG	120
CCCCTGCGTC AGCAGAGTGA TTCAGGTTGA ACCTCAGGCC TACACCGACA CACACGACAA	180
TACCGGCTAC AGCCCCCAG CTCCCTACAG CAGCCACAGC TTTGCCCATG AAACGCAGAT	240
TACCATGCGC TCCACTGTCC AGCTCCGCAC GGAGTACGAC CCCCACACGC ACGTGTACTA	300
CACCACCGCT GAGCCGCGCT CCGAGATCTC TGTGCAGCCC GTCACCGTGA CACAGGACAC	360
CCTCAGCTGC CAGAGCCAG AGAGCACCAG CTCCACAAGG GACCTGCTCT CCCAGTTCTC	420
CGACTCCAGC CTCCACTGCC TCGAG	445

## (2) INFORMATION FOR SEQ ID NO:1125:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 314 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTGCCTT CATGGCCTAC ACCAGCCTAT TCTCTGCTTC TGTGAGTTTG ACTCTTTTTT	60
TTTTTATGAG ACAGAGTCTC ACTCTATCTC CCAGGCTGGA GTGCAGTGGC ACAATCTCGG	120
CTCACTGCAA CCACCACCTC CCAGGTTCAA GCAGTTCTCC TGCCTCAGCC TCCCAGTAG	180
CTGGAAATAT AGGTGTGCCC CACCACGACT GGCTAATTTT TGTATTTTTA GTAGAGACAG	240
GGTTTCACCA TGTTGGCCAG GCTGGTCTCG AACTCCAGGC CTCATGTAAT CCGCCACCT	300
TGGCCACACT CGAG	314

## (2) INFORMATION FOR SEQ ID NO:1126:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 328 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

GAATTGGGCC TTCATGGCCT ACACGCCCCC GCCCGCCTG CTGCCAGGA ATACTTTCTC	60
---	----

```

CAGGAAGGCT TTCAAGCTGA AGAAGCCCTC CAAATACTGC AGCTGGAAAT GTGCTGCCCT      120
CTCCGCCATT GCCGCGGCC TCCTCTTGGC TATTTTGCTG GCGTATTTCA TAGCAATGCA      180
TCTGCTCGGA CTCAATTGGC AACTCCAGCC TGCAGATGGG CACACCTTTA ACAATGGGAT      240
AAGGACCGGC TTACCAGGAA ACGATGATGT GGCAACAATG CCATCTGGAG GCAAAGTGCC      300
CTGGTCGTTG AAAACAGGC AACTCGAG                                     328

```

## (2) INFORMATION FOR SEQ ID NO:1127:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

```

GAATTCGGCC TTCATGGCCT AGTGAGGCTC CATTATTTTC ATTTTAAACA AGTTTCAAAA      60
TGTGGCTGCT GCTGTTGCTG GTGGTCCGGA GCCTGCAGAC AGGGGGATTG GCCTGGGAAG      120
GAGAAGTAGA AAACAACGTG TACAGCCAGG CTACAGGGGT GGTCCCCCAG CACAAGTATC      180
ACCCACACAG AGGCAGCTAT CAGCTTCAAT TTGCCCTGCA GCAACTTGAA CAACAAAAAC      240
TTCAGTCCCG GCAGCTCCTG GACCAGAGTC GAGCCCGGCA CCAGGCAATC TTTGGCAGCC      300
AGACACTACC TAACTCCAAT TTATGGACAA TGAATAATGG TGCAGTTGT AGAATTTCCA      360
GTGCCACAGC TAGTGGCCAG AAGCCAACCA CTCTGCCACA AAAAGTGTA CCACCTCCAA      420
GTCTTGCGC CTCCCTGGTT CCCAAACCCC CACCGCTCGA G                                     461

```

## (2) INFORMATION FOR SEQ ID NO:1128:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:

```

GAATTCGGCC TTCATGGCCT AGAATTATCA TGGCATCTGT AACACACATG CCTGTGCTAT      60
ATTCTCACAA TTTTGTTTCTG GTTGTGCATA TTAAATATG GAGCTCCATA TTTTTCCTACT      120
TCCTAGTTGA TCACAGTTGA CTGGGTTGTC TTTTCTGTCA CCTGTTAGTT TTGAAGAGAT      180
GTCTCATATG TAGTGATGTT AGGTATGATG CATTACAGCCA TAGTAAATAC CTGGTACTGT      240
CTCTCAAAAA AAGCCTTTAG CTTTTTTGTA AAGAGGACAA CAGAAAACAC ACCAAAAAAG      300
CAGAAAAATA TGTGTCGGTG ATAGTGGGAG AAACCTTATA ATCATGGTCA TATGTTACCC      360
CAGAGAAGGC TTACACAAGG TCAGCTACAG TTTACCCAAT AACGCTGTGA TTGTCTGGTT      420
CCTTGGCTTA GAAAGCTTAG TCTCTGCCAA GCGGCCTCGA G                                     461

```

## (2) INFORMATION FOR SEQ ID NO:1129:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 491 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:



```

GAATTCGGCC TTCATGGCCT ACAAGAATGA AGCACTGAAA AGCGAAGAAG GCTGCATTCC      60
GAATATCGCC CCAGACATCT GCATAGCATA CAAACTGCAC CTAGAGTGTA GCAGGCTCAT      120
CAACCTCGTG GACTGGTCAG AGGCTTTTGC AACAGTTGTG ACAGCTGCTG AAAAAATGGA      180
TGCAAATTCT GCAACCTCAG AAGAAATGAA TGAAATTATC CATGCTCGGT TTATTAGAGC      240
TGTTTCTGAA CTAGAACTTT TAGGATTTAT AAAACCTACC AAACAGAAGA CTGACCATGT      300
GGCAAGACTA ACATGGGGAG GCTGCTAGAA AGCAAATAAG CAAAGCCAGA ACTATCACAT      360
TTAGCTTAAG AGAAAAAGGT GACCAGTCAT ATTTACATAT ATTAGAGGAG CCTGTTTTGT      420
TGAGAAGATA AATGTGTAAC CCCCATTGAT GTTTAACCAG AAAAGTACAT TGCTAACCCC      480
AAGAGCTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:1130:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 358 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:

```

GAATTCGGCC TTCATGGCCT AGGGCAACAG GAAACTCTTT ATTATGGTGA TGAGATCGAC      60
AATCTCCCTT ACTGTTAACC TTCGCTCCTG CACACTTCAG TGTCTCACT CTGTAGGGCT      120
CGCTGGCCTG GGCTTCTGCG ACCCGCGATC GTCCAGGAGA GGGCACTCGG CGCCCTTCCT      180
GGGGCGCTTC TGGGGCGGAA TTTGCTAGGC CGCCGTAGCA GCGGTGCCAG GTCAGAAGCC      240
GAGCCGGCCC GCTTTTCGTT CTTTAATTGG ACTCTTGGCT AAGACGCTAC CGACACCCCG      300
TCAGGTGGTG GAGGAAGAAG GACAACAGGG AGAGGTGAGG GGCCGAGACG GCCTCGAG      358

```

## (2) INFORMATION FOR SEQ ID NO:1131:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 295 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

```

GAATTCGGCC TTCATGGCCT AAACATCCTC CTGCCACTTA GGAGGAAACA CCTCCCTATG      60
GTACCATTTA TGTTTCTCAG AACCAGCAGA ATCAGTGCCT AGCCTGTGCC CAGCAAATAG      120
TTGGCACTCA ATAAAGATTT GCAGAATTTA ATACAGATCT TTTCAGCTGT TCTTAGGGCA      180
TTATAAATGG AAATCATAAC GTGGTTCTAG GTTATCAAAC CATGGAGTGA TGTGGAGCTA      240
GGATTGTGAG TGACCTGCAG GCCATTATCA GTGCCTCATC TGTGCAGACC TCGAG      295

```

## (2) INFORMATION FOR SEQ ID NO:1132:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 500 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GAATTCGGCC	TTCATGGCCT	AATGAAAAAC	AAAACAAAGA	TGATGAAGCA	GAGTGGCAAG	60
AATTACAACA	AAGCATACAG	CGAAAAGAGA	GAGCTCTATT	GGAAACCAAA	TCAAAAATAA	120
CACATCCTGT	GTATAGCCTT	TACTTTCCTG	AGGTAGAGCT	GAAGTTTCCT	GCACCAGGCA	180
AGCCTGGAAA	TTATCAGTAT	ACTGTGTTTC	TGAGATCAGA	CTCCTATATG	GGTTTGGATC	240
AGATTAAACC	ATTGAAGTTG	GAAGTTCATG	AGGCTAAGCC	TGTGCCAGAA	AATCACCCAC	300
AGTGGGATAC	AGCAATAGAG	GGGGATGAAG	ACCAGGAGGA	CAGTGAGGGC	TTTGAAGATA	360
GCTTTGAGGA	AGAAGAGGAG	GAAGAAGAAG	ATGATGACTA	AGCAGTACTC	TGAATGGACC	420
ACAGTGTTTG	CACATATTTG	CAATTTTTTG	CTGTTTTGGA	AGTGTATCAT	AAACCAGAAA	480
CAGTACATAA	CAATCTCGAG					500

## (2) INFORMATION FOR SEQ ID NO:1133:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 420 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC	TTCATGGCCT	AGATTATATT	GCATATATTT	TATAGAACAA	GGCAAGCAAA	60
ATATTTTAGT	ATTTGCAAAT	CATGTTACTA	TAATTATTAG	ATCATAGTAC	CATTTATATA	120
AAGTATTAGG	TTGGTGCAAA	AGTAATTGCG	GTTTTGGACC	GTGAATTTTA	AATCATTATA	180
AGTCGGCTCA	GACACGTCTT	TATTAATCAG	AGCAGGAAGC	ATTATAATCA	ACACATTTTT	240
GCCAATGAGA	AATAAGTTTG	TTCATTCCCTG	TAGCTTAAAA	ATTCATGCTT	TGGGATTGCG	300
AAAGCATTTT	CTGCTTTCCA	AAAACCTGCT	GGTTTTGGAA	GCATTTTCCT	TTCAAATAGT	360
TGTCGAGATG	CTTGAAGAAG	TGGTGGTTGA	CAAGAGGTCA	GGTGAATACG	GCGGCTCGAG	420

## (2) INFORMATION FOR SEQ ID NO:1134:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 335 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:

GAATTCGGCC	TTCATGGCCT	AACTAGTCCT	GACTGCTTAG	ACAAAGTCAT	AGATTATGTT	60
CCAGGCATTT	TCCNAGAAAA	CAGTTTACA	ATCCAATACA	TTCTGGACAC	CAGTGATAAG	120
CTGAGTACTG	AGCTCTTTCA	GGACAAAAGT	GAAGAGGCTT	CCCTTGACCT	CGTGTTTGAG	180
CTGGTGAACC	AGTTGCAGTA	CCACACTCAC	CAAGAGAACG	GAATTGAAAT	TTGCATGGAC	240
TTTCTGCAAG	GCACTGTAT	TTATGGCAGG	GATTGTTTGA	AGCACCACAC	TGTCTTGCCA	300
TATCATGGC	AGATCAAAAG	AACAACCTAGC	TCGAG			335

## (2) INFORMATION FOR SEQ ID NO:1135:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 308 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:

GAATTCGGCC	TTCATGGCCT	AGCAATTTT	CCCTCAGGGG	GGCTCCCATC	TTCTTACACA	60
GAGAGGCAGC	TGAGGCAGGA	CAGTGGGGCT	AACGTGTAGAC	CAGGCGAGGG	CACGGGCTGC	120
TGGGGTGGCC	CTGCTTCCCC	AGTGACATA	TTGTATCTGT	GTAACATTTT	GTATATTCCA	180
GGGGTAGGGC	CGCCCCCTGT	ATCATACCTA	GCAGAGGTTG	GAGCTGGCAC	ATGGGGAGGA	240
GGTTCTAATA	ATTATTGGG	GCTGGGAAAC	TTATTTATTG	ATAGCATAGG	ACAGAGCCCA	300
CTCTCGAG						308

## (2) INFORMATION FOR SEQ ID NO:1136:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 497 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:

GAATTCGGCC	TTCATGGCCT	ACCGAGGCTT	CAGCGGGTGC	CGCCCGCCTA	GAGGGAGTGG	60
AGCGGCTAGA	CAGCTTTAGG	AACTGAAAGG	TTCACGAGGC	TGTAACGAAG	AGTCGAGTTG	120
CTCCAGAGAG	CCTACGACTA	GATTTCATC	TTTACGTCCT	GCGCGGAGGC	TGCTACACAC	180
ATGCAGAAGT	CATGCTGGTG	GCCTGGACAG	TGAAGGGAGA	GAAGTGGATT	TGGGAGACAT	240
TTAGGAGGAA	CAGTAAGAGG	ACCTTGTGCA	TGAATAATTT	GTTTCCACAC	TACAGAGTGG	300
GTAATAAGCA	GATTAGTAAA	AACAATTCTG	CTTCACTTCA	ATAACAGCCT	CCTCCAACCTC	360
ATTTTTTCTC	AACAAACTTA	TTTCCAGCA	GAAGAATCCC	AGACTTCTTA	GAGAACCAG	420
TGACTTTTTG	CACCTTAAAT	CTGTGAAATC	CTCATGTTTT	CTTCTGCCGT	ATCCATAGTT	480
CAAACAAGAA	CCTCGAG					497

## (2) INFORMATION FOR SEQ ID NO:1137:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 310 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:

GAATTCGGCC	TTCATGGCCT	ACAATTGTAT	GCTGAAAAAT	GGGAGTAACT	ACATGAAATG	60
AGCAAAATGCC	TAGAAACAAA	AAACCTACGA	AGATTGTATC	ATGAAGAAAT	AGAAAATATG	120
AATAGACGTG	TGTATTAGTC	TGTTCTACA	CTGCTAATAA	AGACGTACCC	AAGACTGGGT	180
AATTTTTTTT	TTTTTAAGAA	AAAAGAGGTT	TAATGGACTC	ACAGTTCCAC	GTGGATGGGG	240
AGGCCTTATA	ATCATGGCAG	AAGGCAAAAC	GCACGTCTTA	CATGGCAGCA	GGCAAGAGAG	300
AATACTCGAG						310

## (2) INFORMATION FOR SEQ ID NO:1138:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 466 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:

```

GAATTCGGCC TTCATGGCCT AAGCAAATCA CTTTCCCGA TTGAAAATAC ACTTTACAAA      60
AGTGTTTTCA GCTTTTGCAT TGGTTAGGAC TATACGGTAT CTTTACAGAC GGCTACAGCG      120
GATGTTAGGT TTAAGAAGAG GCTCTGAGAA TGAAGACCTC TGGGCAGAGA GTGAAGGAAC      180
TGTGGCATGC CTTGGTGCTG AGGACCGAGC AGCTACCTCA GCAAAATCTT GGCCAATATT      240
CTTGTTCTTG GCTGTTATCC TTGGTGGTCC TTACCTCATT TGGAAACTAT TGTCTACTCA      300
CAGTGATGAA GTAACAGACA GCATCAACTG GGCAAGTGGT GAGGATGACC ATGTAGTTGC      360
CAGAGCAGAA TATGATTTTG CTGCCGTATC TGAAGAAGAA ATTTCTTTCC GGGCTGGTGA      420
TATGCTGAAC TTAGCTCTCA AAGAACAACA ACCCAAAGCA CTCGAG                      466

```

## (2) INFORMATION FOR SEQ ID NO:1139:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 473 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:

```

GAATTCGGCC TTCATGGCCT AATTTTTTTT AATAGAGACG AGGTCTTGCT ATGTTGCCCA      60
GGCTGGTCCC AAACCTCTGG CCTCAAGCAG TCCTTCCACC TTGGCCTCCC AAAGTGCTGG      120
GATTATCAAT ATGAGCCACC ATGCCAGATT TGTTCAATTT TAAATATTTT TATCTCTTCA      180
AGTCATCTTT TGATCTTTTA AAAAGCACCT TCAAACAGCT GCACCTTCCA TTGCACTAG      240
GAAATGAAGG TAGTGATGGG ATTGGCAATG TTCCTGGCAG ATGTTTCAGC CCAAAGCTC      300
TTCTACAGAC CGGTTTAGAG CTGGTGCCCT ATGAGAATAT TAGGGAGCTT TTATTTTAAA      360
TTGAACTTTA CCCTTGTCCTA TGCAAGGCAT TCCTCCTGAA TGCATCCATG AATTGTGTTA      420
CTTTTGCCTC AAACATATGA GCCATTGTCA TGCTCAGCAT GTGCCACCTC GAG                      473

```

## (2) INFORMATION FOR SEQ ID NO:1140:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 353 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:

```

GAATTCGGCC TTCATGGCCT AAATGAAGAT CAGCTTCGTG CAAAGGGTTA TGACAAAACA      60
CCGACTTCA TTTTACAAGT ACCAGTTGCT GTAGAAGGGC ACATAATTCA CTGGATTGAA      120
AGCAAAGCCT CATTTGGTGA TGAATGTAGC CACCACGCCT ACCTGCATGA CCAGTTCTGG      180
AGCTACTGGA ATAGGGTCCC AATATAACAG ACAAATGGTG AAACAGAGGG ATACTCACTA      240
GGAAACAGAT TTGGGCCAGG CTTAGTCATC TATTGGTATG GATTTATCCA GGAGCTGGAC      300
TGCAACCGGG AAAGGGGCAT CCTGCTCAA GCCTGTTTCC CCACGTCCTC GAG                      353

```

## (2) INFORMATION FOR SEQ ID NO:1141:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 571 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:

```

GAATTCGGCC TTCATGGNCT ACCAATTTCT CATGGTTCCC TAGGACCTTC CTAGCTCCCC      60
AGGGAAAGCC TNTGCTGTTT CCCTTGNTTT CTTTTCACCT GACAAACTCC TACTCAAACCT      120
TCAAAACCCA ACTCAGGAAA CATCTCCCCT AGGAAGCTCT CCTTAACTTT TTCTGCTGGG      180
TCCCGCTGCC TCTGCTAAAG TCCACGTGAG GGAAGTCCAA GANGTTTGCT CTGTCTCACA      240
GATTGAGTGC CAAGAGGGCA GGGACNTCTC TTTGAGAGAG TTTAACCTCT GTAACATAAG      300
CAAGTTTACT TAATCACTGA TTAACCACT TGTGCCTCA GTTTCCTCAT TTGTTAAGCA      360
TGAATTATCA CTGTCATAT CTGCCAGGAC TGTGAAGGGG GTGTAAATGC ATGAACATCA      420
TAAAGTGCTT AGAAGCATGC CTGGTACAAA GAAAGTTCTC TAGGNAAACA ANAAACAAAC      480
AAAAAAAAC AAAACAGAAA TGTATCTAGA GGTGAGATAC CAGTCCCACA TCGAGTGCAG      540
ATAATGGGCT AAGTAACCAA TGAGTCTCGA G      571

```

## (2) INFORMATION FOR SEQ ID NO:1142:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:

```

GAATTCGGCC TTCATGGCCT AGTAAGGAGA GCCTCTATCA AAGGGTGGCC TGGAGCAGAA      60
TATCAGGCTA TGTGTATTAG TTCGTTTCA CACGCTATGA AGAACTACCT GAGACTGGGT      120
AATTTATAAA GAAAAGAGGT TTGATTAAC TACAGTTCCC ATGACTGGGG AGGCCTCAGG      180
AAACTTACAA TCATGGTGGA AGGCATGATA GCAGGAGGGG TGGAAAGAGG GGAGTGTAC      240
ACTTTAAAC CATCAGATCT TGTGAGAACT CACTCACTAT CATGAGAATA GCAAGGGAGA      300
AATCCACCAA CTCGAG      316

```

## (2) INFORMATION FOR SEQ ID NO:1143:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:

```

GAATTCGGCC TTCATGGCCT ACTCAAGCGT TTCAGTGTGC GATATCTGCG ACTGCTCGCA      60
GTCTTGCTTT CTTTGGTTCT CCCCTGGGGG CTCAGGATTA CGAGGCCTGA AGCTCCTAGA      120
GGCTAAATGC CAGGGGGATG GAGTGAGCTA CGAGGAAACC ACTATTCCCC GACCCAGCGC      180
CTACCACAAT CTGTTTGGAT TACCACTGAT TAATCGTCNA GATGCTGAGG TGGTACTGAC      240
GAGTCGTGAG CTGACAGCC TGGCCTTGAA CCAGTCCACG GGGCTGCCTA CCCTTACTCT      300
ACCCCGAGGA ACGACCTGCT TACCCCTGCT CTTACTCCCT TACCTGGAAC AGTTCCGGCG      360
GATTGTATTC TGGTTGGGGG ATGACCTTCG GTCCTGGGAA GCCGCCAAGT TGTTTGCACG      420
AAAACAGAGC CCCTAACTCG AG      442

```

## (2) INFORMATION FOR SEQ ID NO:1144:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:

GAATTCGGCC	TTCATGGCCT	ACCATCTACA	GCTGTATTCT	TGTTCCCTTG	ATGGCACAAT	50
TAAACTGTGG	GACTATATAG	ATGGCATCTT	AATAAAGACT	TTCATAGTTG	GATGTAAACT	120
TCATGCCCTC	TTTACTCTTG	CCCAAGCTGA	GGATTCTGTC	TTTGTATAG	TGAATAAAGA	180
AAAACCAGAT	ATATTTTCAGC	TGGTTTCAGT	GAAACTGCCA	AAATCCTCAA	GCCAGGAAGT	240
AGAAGCCAAG	GAGCTGTCCT	TTGTTTGGGA	TTACATAAAC	CAGTCACCCA	AGTGCATTGC	300
CTTTGAAAC	GAGGGAGTAT	ATGTTGCGCA	GTACTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:

GAATTCGGCC	TTCATGGCCT	AGGCCAGGGG	ACCCGGCCTC	AGGTCTGTGG	AGGTGCTTCA	50
ACAGCAGGAT	GCTCATTCTC	TGTCCGTAGT	GTCTCCATAT	ACTTTCTCAT	CTTCTCCACC	120
ATCCAGGAGG	GTAGGACAAA	GGATTTCAT	TCCTCTAGCT	TCAGATCCAG	GCATCCTCTG	180
TAATCATCAC	TGGCCGCAAG	GTCCCGGATG	TCCTCCTCGA	TGAGGAGGTA	GGCCATCTTG	240
CCCCCTGTTG	CCCGCATGTG	ATGCTGCTCA	GCCAGCCAGT	GCTTATCCTG	GGGGTCAGCT	300
GCATACTTAA	AGAGGTGTGG	GTGCTTGATG	TAGATTCTTC	CTCTGGTGCC	CCCCATCCCC	360
AGGGCTTTGT	TGGCTCGAG					379

(2) INFORMATION FOR SEQ ID NO:1146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:

GAATTCGGCC	TTCATGGCCT	AGGAAAGCTG	GGGGCAAGGA	AGAGCCTTGA	ATCTTGAGGT	50
GGGACGTTGA	CTCTAAGATG	TCCTTGAGCA	GTGGAGCCTC	CGGAGGGAAA	GGAGTGGATG	120
CAAACCCGGT	TGAGACATAC	GACAGTGGGG	ATGAATGGGA	CATTGGAGTA	GGGAATCTCA	180
TCATTGACCT	GGACGCCGAT	CTGGAAAAGG	ACCAGCAGAA	ACTGGAAATG	TCAGGCTCAA	240
AGGAGGTGGG	GATACCGGCT	CCCAATGCTG	TGGCCCACT	ACCAGACAAC	ATCAAGTTTG	300
TGACCCAGT	GCCAGGTCCT	CAAGGAAAGG	AAGGGCTCGA	G		341

(2) INFORMATION FOR SEQ ID NO:1147:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:

GAATTCGGCC	TTCATGGCCT	AGGGGGGGCC	ATCTTTAATT	CTGTAAGTTC	ATGGTAAAGG	60
TATCTCCCCC	CACACTGGGG	CAGGCGGCGG	AATAAGCTCC	AGCGTTCATG	CGCCACTCAC	120
AGGACTGCTT	ACCCCCACTG	CACCTTACAAT	GCAGTCACAG	AGTTACGGCA	TGTTCCACCGG	180
TGTCCATGAC	AAGCAACACC	AAGTATAAAT	AACAGAACTA	CAGCAGAGCA	AACTAAGATA	240
AATATGTTTT	TGCATCGTCC	TCCACATAGT	TTCCTTTTAA	AAAGAAGAGT	CACATCCAGG	300
GGTCTATCCC	TCGAG					315

(2) INFORMATION FOR SEQ ID NO:1148:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 473 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

GAATTCGGCC	TTCATGGCCT	AGCTCTTTGG	GGAGCTGTTT	CAGAGGGAAA	GTGGATGAAG	60
GCTGAAGTGG	AGGCCAAATT	AGGTGCTCTA	GTACCCTCTC	TTGGATCTCT	TTCAGCTTTT	120
ACCTGTTTTA	TATGCTGGGA	TTTTATATAC	AACTATTTGC	AGAACTCAAC	TGCTAAAGTA	180
AAACGGTGGG	GAGGACTATT	GGATTGGGAG	ATCTCTAAAA	TCCCAATTGGG	ATTGATGAAA	240
AAGAGAACTA	TCAGCAGAAA	AGAGGAAGGG	AACAAATGAG	TTGTTAGTAC	CTTAGTTTCT	300
AATTTATGTT	CCTTTATTGT	AGATTCTTTT	CTTGGCCACT	ACACTCCTTA	GAATATAAT	360
TCAACACTGT	TTCTTTTACC	ATTTTGTATG	ATATGCCAAG	TCCAGCTTTA	CTCAGCCACA	420
TTTTGTCCAC	TGGCTTATAT	TTAATTTATA	TTTTAGGATA	CAGATAACTC	GAG	473

(2) INFORMATION FOR SEQ ID NO:1149:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:

GAATTCGGTC	TTCATGGCCT	ACTCTGGGTT	GCCTGTGGTC	ACTTCTGGTT	GCCTAGGACT	60
AGAAGGCTCA	GATTTTCAGT	GTGCGGACAC	TCCCATTCCT	CATCAAAGAA	GATCAATTGA	120
ATGCTGCACA	GAAAGGAACG	AATGTAATAA	AGACCTACAC	CCTACACTGC	CTCCATTGAA	180
AAACAGAGAT	TTTGTGTGATG	GACCTATACA	CCACAGGGCT	TTACTTATAT	CTGTGACTGT	240
CTGTAGTTTG	CTCTTGGTCC	TTATCATATT	ATTTTGTTAC	TTCCGGTATA	AAAGACAAGA	300
AACCAGACAA	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1150:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 232 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:

GCCACGAAAG	GTACCCCTGA	ATTCTGGACT	CATAAAATCT	CTTAGATAAT	ACATATTTGT	60
TGTTTTAACC	CACTCAGTTT	TGCATTGGTT	ACACAGCAAT	AGAAAATAAA	GGAGGCAGAT	120
GAAATTGATG	GAGAACAATT	GCAACGAAAA	CAGAATACAC	AATGCACGAG	CCTGTGTCAG	180
GAATGACAGT	GCATTCCACG	GAAGAGTTGC	ACAGAGAGAG	ACGCCGCTCG	AG	232

(2) INFORMATION FOR SEQ ID NO:1151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:

GAATTCGGCC	TTCATGGCCT	AGCCTTTAAC	ACTTGATATA	AAATCCAAGC	ATTTTTCAGA	60
CCTCAACCCA	GAATAGTAGA	TACCTGAAAT	TAAGATTCCT	ATTGGTGAGA	AACAAGATCT	120
GTATATTCC	CTATCCCTAT	CCCCAAATGC	CAGTGGGTCA	TTTTCCCAT	GCCTAGCTCC	180
ATTCACAGCT	AATATGTGGA	TTGAGGCTTT	ATTCCAAAAC	ATTTAGGTTT	TATATTCTTC	240
CCTAGCCCTG	ATTAGCAGTG	CTCATCTTTG	AAGATCATTG	TGACTTTTCA	GACTATTGTA	300
TGTATGGCTC	AACCTGACCC	CTTCTCTCC	TTTCAGGATT	TGGCAGAGAG	AACGGCCGCT	360
TCTCGAG						367

(2) INFORMATION FOR SEQ ID NO:1152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:

GAATTCGGCC	TTCATGGACA	GCACAGTGGC	CAAAGAAGGC	ACTAATGTAC	CATTAGTTGC	60
TGCTGGTCCT	TGTGATGATG	AAGGCATTGT	GACTIONAAG	AGGAGACGA		120
GGAGGGGAG	GATGTTGTGA	CTAGTACTGG	AAGAGGAAAT	GAAATTGGGC	ATGCTTCAAC	180
TTGTACAGGG	TTAGGAGAAG	AAAGTGAAGG	GGTCTTGATT	TGTGAAAGTG	CAGAAGGGGA	240
CAGTCAGATT	GGTACTGTGG	TAGAGCATGT	GGAAGCTGAG	GCTGGAGCTG	CCATCATGAA	300
TGCAATGAA	AATAATGTTG	ACAGCATGAG	TGGCACAGAG	AAAGGAAGTA	AAGACACAGA	360
TATCTGCTCC	AGTGCNAAAG	GGAGTCTCGA	G			391

(2) INFORMATION FOR SEQ ID NO:1153:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:

```

GAATTCGGCC AAAGAGGCCT AGCACTTGTC TCATTTTAAT GTAAAGATTG GCTTCCATTT      60
TCCTACAGGC AGTCTCTCTC TTCCTCACAG TCCCCTGTG CAGGTGCTAT TGTTACTCTT      120
ACGAATATTT TCAGTAATGT TATTTTCTTC TAAGTGAAAT TTCTAGCCTG CACTTTGATG      180
TCATGTGTTT CCTTTGTCTT TCAAACCTCA AGGTTCCCCT GTGGNCCCTC CCCTTACCCT      240
GGGAAGGCCT CTTGGAGACC TTACCCCTTG CTGTTTGGAC TTTGTATACT TTAATAAATT      300
TAATAACCTT TAATTACTTA AAAAAAAAAA AAAAAAGCTT TATGATTTTC ATAACCTATT      360
GCTGATTITA ATGGATTGTT AATTTCAGTC CTGTAGTTTT ATTTTATGTT TAGATAGGGC      420
TGGGCAAGGA AAAAGAAAAT AAAGACAACC ATACTCGAG                                459

```

## (2) INFORMATION FOR SEQ ID NO:1154:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 390 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:

```

GAATTCGGCC AAAGAGGCCT ACTCCTTCAG ACTACAAGCT CCACAGAGCC GCGGGAGGAC      60
GGTTGCCTGG TATTATTAGC AAGCAGCAAA TATGGCGGTG GCGCGCGTGG ACGCGGCCTT      120
GCCTCCCGGA GAAGGATCAG TGGTCAATTG GTCAGGACAG GGAATACAGA AATTAGGTCC      180
AAATTTACCC TGTGAAGCTG ATATTACAC TTTGATTCTG GATAAAATC AGATTATTAA      240
ATTGGAATAT CTGGAGAAAT GCAAACGATT AATACAGTTA TCAGTAGCTA ATAATCGGCT      300
GGTTCCGATG ATGGGTGTGG CCAAGCTGAC GTTGCTTCGT GTATTAAAT TGCCTCATAA      360
TAGCATTGGC TGTGTGGAAG GGCTCTCGAG                                390

```

## (2) INFORMATION FOR SEQ ID NO:1155:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 534 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:

```

GAATTCGGCC AAAGAGGCCT ACGAATGTGG CCGGGTGGGA CCCGGACATA CGAGAGATTG      60
TCCTCATCGT GGCCATGATG ACATTGTCAA CTTCGAGAGG CAGGAGCAGG AGGGAGAGCA      120
GTACCGTTCC CAGAGGGACC CACTGGAGGG CAAGCGGGAC CGGAGCAAGG CCAGGTCTCC      180
GTACTCGCCA GCCGAGGAGG ATGCCTTGTT TATGGATTTA CCCACTGGCC CAAGAGGCCA      240
GCAGGCACAG CCCCAACGGG CAGAGAAGAA TGGAATGCTG CCTGCCTCAT ATGGCCCAGG      300
AGAACAGAAT GGGACTGGTG GGTACCAGCG GGCCTTTCCT CCCAGGACCA ACCCTGAAAA      360
ACACAGCCAA AGGAAGAGCA ATCTGGCCCA GGTGGAGCAC TGGGCAAGGG CCCAGAAAGG      420
GGATAGCAGG AGTCTTCCCT TGGACCAGAC GCTTCCTCGC CAGGTCCTG GCCAATCCCT      480
GTCCTTCCCA GAAAACCTACC AGACTCTTCC CAAGAGCACC CGAAACGCCT CGAG                                534

```

## (2) INFORMATION FOR SEQ ID NO:1156:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 505 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:

GAATTCGGCC	AAAGAGGCCT	AATGGATCTA	GTCACCTTCA	GATTTCAATT	TGAGGTTAAG	60
TATATAAAGC	ACATCCCAAT	TTTATATGCT	GCCTTGAGAA	AATTACAGGA	TGCACGGCAA	120
TTTGTAGGAA	TTTCAAATGG	GATCATTTAA	ACATTTGAAA	AATTATTTTA	AAAACCATCT	180
AGTTTGCTTT	TGGATTTTAG	ACATTAAAGC	CTATGTTGTC	TTGTTAACAG	GGGTGGAATG	240
TATAACCATC	AGATTCAGCA	TGTGATTTC	CCTTTGAATC	TGAGTATTTT	TTCCCTATCT	300
TCTTTGAGTC	ATTTTGGAG	CAGACTGTCA	CCAGTATTGA	TAACTAAGCA	TTAAAGGGAA	360
AAGTTGCATT	GCAACTATGC	ATTGGTTTCC	TGGAAGAACT	TTTCTTTTGT	TTTAGTGAAT	420
GAAGAGGCTT	GATGGGATCA	CTTACTGTAA	CTCCTTCTAC	ATAAGGACCC	CTTCTGCAAG	480
CAGAACACAA	AAGAACACGC	TCGAG				505

(2) INFORMATION FOR SEQ ID NO:1157:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 441 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

GAATTCGGCC	AAAGAGGCCT	ATGTTATTGG	GAAGGACCCA	GAGAACAAAA	AGTTGAATAC	60
GGAAAAGAAA	ATAGGATTTG	CAAGAAGCAC	NTTTTTTTTT	TTTTTTTTTT	TTTNGAGACA	120
AANTCTCGNT	TTGCANTCCA	GCCTGGGTGA	CAAGAGCAAA	ACCTNGTNTC	CAAGNAAAAA	180
AAAATACAGT	TTTGGTGATA	ATACAGTTTG	AAAGTAATTA	GCATGTGGAT	AGTCATAGAA	240
ACCACAGGCA	TCAATGAAAC	TGGCTAGGAG	AAAGGACACC	AAGAGGAAAT	GGCCAGAGGT	300
AACAGGAAAA	TCAGGGGAGT	GTGGTTCACA	GAAGCCTGGG	AAGTGCTATT	TCAAGAAGAG	360
AGTGGGTGGA	AATTGTTAAG	TGTCTAATGC	TGCTCAGAAG	CCAAGCAAGA	TAAAGACAGA	420
AGAATCTAGT	GGGAACTCGA	G				441

(2) INFORMATION FOR SEQ ID NO:1158:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 382 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:

GAATTCGGCC	AAAGAGGCCT	AGCAGAACCC	GACCAGGGGA	GCCTGCGCTG	TGTGTTTCAG	60
GTGCTCTGCG	ACCACTTCTA	TAAAACCTAA	AAAAGGAGAT	TGCTCTGATT	GCAACAGGTG	120
TGGGGGACCA	GTATCCCATC	CCATTGGCCC	TGCCCTCCCA	CCTGTAAGGC	AGAATATGGT	180
TGGGAAATCA	TTGCCATATG	CAGAAGGGGT	CACTGAGGGG	TTTTAAACAA	CAGTGACATG	240
CTCAGTTCTC	TGGGTTGAGG	CATCATCACC	CTGGTGGCCA	TGTGGAGGAT	GGACTGGAAA	300
AGGCATTTCAG	TTAGAAGACC	TCTGCAGGAG	TCCAAGGAAG	AAACAGGCAA	ATCTGCAGGA	360
GGCAGGCATA	TCCAAGCTCG	AG				382

(2) INFORMATION FOR SEQ ID NO:1159:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:

```

GAATTCGGCC AAAGAGGCCT AGCCTCGGTG ATTTCCAGTG GAAGAATGTA GGTCCCAATA      60
CCACAAGCAC AGTCATTAGC ACAGATGCTT TTAGGCCAGG AGTTGATAT GACTTCAGAA      120
TTTATGGGTT ATCTACAAAA AGGATTGCTT GTTTATTAGA GAAAAAAAC AGGATACTCT      180
CAGGAACCTG CTCCTCAGA CAACCCCTCAC GTGCTGGTGG ATACATTGAC ATCCCACTCC      240
TTCACCTCTGA GTTGAAAGA TTA CTCTACT GAATCTCAAC CTGGTTTTAT ACAAGGGTAC      300
CATGTCTATC TGAAATCCAA GGCAGGCAG TGCCACACCG ATCTCGAG      348

```

## (2) INFORMATION FOR SEQ ID NO:1160:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:

```

GAATTCGGCC AAAGAGGCCT AGAAAACTG AAAAAATAAG AAACCTTGA GAAAAAGAGG      60
AATCAGTGCA GGCTAGGGGA ATGAACCTGG TAATCCAGTA GTCTTCCCT GCCAGCATTT      120
TGATTGATAA GCTAAGTGTC TGCTTTTCT CATCCCTTAT TTTTGGCAG GAAACCAGTA      180
TTTGATACT TGAATGCCTT CTTCTATCT TAAGGGAGAA GCCTTCTTAA ACTTCAAGTG      240
TGAAGTAGAT CCTTTAGGTA TAGGATGAAA AATTAAGTGG GACTATTTGT GAATTACTAA      300
ATCGCAACTC GAG      313

```

## (2) INFORMATION FOR SEQ ID NO:1161:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

```

GAATTCGGCC AAAGAGGCCT AGGAGCCTAG AAAAGAAGAA AGGTCTATTT TTATAAAAC      60
TGATGAAATA CTTGTGGCAG GGAGTCCTCG AG      92

```

## (2) INFORMATION FOR SEQ ID NO:1162:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCA	AAAGAGGCCT	AGTGCATAAG	GAATCACTGT	GTACAAACTG	GCCAAGTGCT	60
TCTGTAGATA	ACGTCAGTGG	AGTAAATATT	CGACAGGCCA	TAACTTGAGT	CTATTGCCTT	120
GCCTTTATTA	CATGTACATT	TTGAATTCTG	TGACCACTGA	TTGGGGTTTT	ATTTTGTATT	180
TGCAGGGTTT	GTCATTAAATA	ATTAATGCCC	CTCTCTTACA	GAACACTCCT	ATTTGTACCT	240
CAACAAATGC	AAATTTTCCC	CGTTTGCCCT	ACGCCCCCTT	TGATACACCA	CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:1163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

GAATTCGGCC	AAAGAGGCCT	ATTAAAAATA	AGTGTCTAAT	ACTGTGTATT	CATATAGCCT	60
TTATATCTCA	ATACGTGCTT	ATCTGTTGGT	ATACCTTAGA	GAAATAACCC	ACCATCAATG	120
AGAAGAAGGA	AAGGCAGGAG	GAAAAAAGTT	TATATAACAC	TTAAAAATGG	TAGATTATTT	180
GTGGCCATTT	GAATTTACTG	ATTTGAAGTT	CTTAAAGATG	CTGAGCCATG	CCTTACATAG	240
TTATTTTAGA	ATCTAAAGTT	GTTCTGTATT	TGCATAACGT	TTCTGTTCTT	TTTCTTCTTT	300
AAACCCTGAA	AGTGATAGAT	GGGAAGGAGG	AACCAGATAT	TTGGCATGGT	CTGACAAAAA	360
TTAACTTGTC	AACTCGAG					378

(2) INFORMATION FOR SEQ ID NO:1164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:

GAATTCGGCC	AAAGAGGCCT	ACTCCAGGGT	ACTTTTCCCC	TAGGCCTGAC	CTTTTAGTGT	60
CTTTTGTGCC	ANACATATTT	AAGACCAGAG	GAAAAAAGCA	ATTGCTTTAG	TTTCTATGTT	120
TGGGTAACAA	AATCTACCCA	CAGACAAGAG	AATAACAAAA	ACCAAACAGT	ACAGTGGGAA	180
ATATACCAGA	AAGGAAAAAA	AAGATCATCA	CATTAAATGT	AAATGAGGTA	AATTTTATA	240
ATAAAGAATC	TTTATGAAG	AATGTCTCAA	ACCAAATATT	GTACTTTCCA	ATTTCTGGG	300
CACTGGGGAT	GCTGAAGTGT	AGTTAGATGA	GTATATAACC	CTATAGGGCT	CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:

GAATTCGGCC	AAAGAGGCCT	AGTCTTCTGC	CCCCCTATGA	AGTTTGAGTT	TCAGCCCCAC	60
ATGGGGGATA	TGGCTTCCCA	GCTCTGTGCC	CAGCAGCCTG	TCCAGAGTGA	GCTGGTACAG	120
AGATGCCAAC	AACTGCAGTC	TCGCTTATCC	ACTCTAAAGA	TTGAAAACGA	AGAGGTAAAG	180
AAGACAATGG	AGGCCACCCT	GCAAACCATC	CAGGACATTG	TGACTGTCGA	GGACTTTGAT	240
GTGTCTGACT	GCTTCCAGTA	CAGCAACTCC	ATGGAGTCCG	TCAAGTCCAC	GGTCTCTGAA	300
ACCTTCATGA	GCAAGCCCAG	CATTGCTAAG	AGGAGAGCCA	ACCAGCAAAT	CCTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:1166:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 375 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

GAATTCGGCC	TTCATGGCCT	AGACAGGCGG	ACCCAGAGAG	ACTTGCAGTA	CGTGGAGAAG	60
ATGGAGAAC	AAATGAAAGG	ACTGGAGTCC	AAGTTCAAAC	AGGTGGAGGA	GAGTCATAAG	120
CAACACCTGG	CCAGGCAGTT	TAAGGGCTAA	CTTAAAAGAG	TTTTTTCAAT	GCTGCAGTGA	180
CTGAAGAAGC	AGTCCACTCC	CATGTAACCA	TGAAAGAGAG	CCAGAGAGCT	TTTTGCACCA	240
TGCATTTTTA	CTATTATTTT	CCAATACTTA	GCACCATTTT	ACTAAGGAAC	CCTGAATACA	300
ACGAGGATCC	TCCTTTGCAT	GCGACTGTAG	CTGCATTTC	TGAATAGTTT	GAACCCTTGT	360
CAATGCAATC	TCGAG					375

## (2) INFORMATION FOR SEQ ID NO:1167:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 375 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

GGCTTATTGA	TGACTCTTAT	TTTAATTATG	TTTTTAGCAA	TGATAAGTTA	CAATATAATA	60
GCTGGAGATA	CTTTGAGCAA	AGTTTTTCAA	AGAATCCCAG	GAGTTGATCC	TGAAAACGTG	120
TTTATTGGTC	GCCACTTCAT	TATTGGACTT	TCCACAGTTA	CCTTTACTCT	GCCTTTATCC	180
TTGTACCGAA	ATATAGCAAA	GCTTGGAAAG	GTCTCCCTCA	TCTCTACAGG	TTTAACAAC	240
CTGATTCTTG	GAATTGTAAT	GGCAAGGGCA	ATTTCCTGG	GTCCACACAT	ACCAAAAAA	300
GAAGACGCTT	GGGTATTTGC	AAAGCCCAAT	GCCATTCAAG	CGGTCGGGGT	TATGTCTTTT	360
GGGGACGTTC	TCGAG					375

## (2) INFORMATION FOR SEQ ID NO:1168:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 552 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

```

GAATTCGGCC TTCATGTCTC TGCAATCTGA AAATAGTGCC TTTTACCAAG AAGAGGACAG      60
AATTGGCGTT TGGAAGGCTG AGGGTCATGG TGTAAGGGCT TTTGAGTCAA AATCTTGGTG      120
TCAAGCAGAT GAGGCTGCAA CACAGACCTG TGACCAAACCT TGTGTGGAGC GTGTGGTGGA      180
CACGCAGGGG ACTGTGCAGA GGACAGATGG CCTAAAGCTT AGCATGGCAC AAGGAGTGCC      240
CCCCGATGGC AAGTCTCCCA GTCAACTCCA GATCTCTTCA CAGTAACTGT GTTTCCTCCG      300
CATTTATTTT CAACCTGCAC AGAGGAAGAA GAGAGGGAAA CAAGCCCAGG TGACAAAACA      360
GAGGGTGAAA TATGTGTGAA GAGTTCAGTC AGTGTGTAC GAGACCAGCT GAGTGACCCT      420
CAAAGGTTAG AAGGTAGTGA AAAAGAATCA CTGCAAGCAA AGTATAGTGA GACAGGTGAA      480
GATGACATAG AGACTGTCAA GTCAGATTCT AAAACAACCT ATGAGTGGGA AACAGGNACA      540
CAAAAACTCG AG                                     552

```

## (2) INFORMATION FOR SEQ ID NO:1169:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 566 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

```

GAATTCGGCC TTCATGGCCT AGAGCGGAGT AAATTCTCCA CAAGCTGGGA ACAACCTCG      60
TCCCAACTCC CACCCACCGG CGTTTCTCCA GCTCGATCTG GAGGCTGCTT CGCCAGTGTG      120
GGACGCAGCT GACGCCCGCT TATTAGCTCT CGCTGCGTCG CCCCGGCTCA GAAGCTCCGT      180
GGCGGCGGCG ACCGTGACGA GAAGCCACG GCCAGCTCAG TTTTCTTCTA CTTTGGGAGA      240
GAGAGAAAGT CAGATGCCCC TTTTAAACTC CCTCTTCAAA ACTCATCTCC TGGGTGACTG      300
AGTTAATAGA GTGGATACAA CCTTGCTGAA GATGAAGAAT ATACCATATT GAGGATATTT      360
TTTTTCTTTT TTTTTCAGG TCCTGATTG TGCTTACCT CAAGTTACCA TTTTTCAGTC      420
AAGTCTGTTT GTTTGCTTCT TCAGAAATGT TTTTACAAT CTCAAGAAAA AATATGTCCC      480
AGAAATTGAG TTTACTGTTG CTTGTATTG GACTCATTTG GGGATTGATG TTACTGCACT      540
ATACTTTTCA ACAACCAGAA CTCGAG                                     566

```

## (2) INFORMATION FOR SEQ ID NO:1170:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

```

GAATTCGGCC AAAGAGGCCT AGGGAGTCAA TCATGATCNT TTCATATATG CTGGCNATAG      60
AAAATGGTCT CGGTGAAGTA ATGGTCTGTC TGTAAGCAT GACATCCTTG CCTGTGTTAA      120
GTTTTTGTG CTCTTCTGGG ATGTTGATCG TGACGTCTTG TCCGGGATTG AGAAGCTTCT      180
GTTGCTCTTC TGGGATGTCA TTCATGATCT CTTATATAT GCTGGCTATA GAAATTTGGC      240
TCTGTGAAGA AATAGTGTGT CCAAAACCTT GGTACAGGCC CCCTGGGGAG GGTACCTTTG      300
AAGAACCAGA AGTTAGATCT TGTGAAGAAG AAGAAAGTAG GCTCGAG                                     347

```

## (2) INFORMATION FOR SEQ ID NO:1171:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

GAATTCGGCC TTCATGGCCT ACTTTTGGG GACTGGTACT GGAGAAAAAT CTGAGAGCAA	60
AAGTGCTTGG CTAATTTCCC TTTTCTTCT TTTAGTTTT GAAATCATGA ATCCTGTTTA	120
TAGTCCTGGA TCTTCTGGG TTCCCTATGC AAATGCCAAA GGAATTGGTT ATCCAGCTGG	180
TTTTCCCATG GGCTATGCAG CAGCAGCTCC CTGCCTATTC TCCTAACATG TATCCTGGAG	240
CGAATCCTAC CTTCCAAACA GGTACACTC CTGGCACACC TTACAAAGTG TCCTGTTCCC	300
CCACCAGCGG GGCTGTGCCA CCGTACGTCC CCCTCGAG	338

(2) INFORMATION FOR SEQ ID NO:1172:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 294 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

GAATTCGGCC TTCATAATCT CCTGCTCTTG AGAATGTGCC GATATGTCAA AATATCTACT	60
GAAACTGAAG AAACCTGAAG ATCCCTACAC TGCTGTAAGG ACCAAAATAT TAATGGGAAT	120
GGCCCAAATG GCATACATGA AGAAGGCTCA CCAAGTGAAA TGGAAACAGA TGAGCCAGAT	180
GATGAATCCA GCCAGGATCA AGAACTTCCC TCAGAGAATG AAAACAGTCA GTCTGAAGAT	240
TCAGTTGGAG GAGATAATGA TTCTGAAAT GGATTATGTA CCGGATACT CGAG	294

(2) INFORMATION FOR SEQ ID NO:1173:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:

GAATTCGGCC TTCATGGCCT ACATAAAGA ACGAAAAGGA AGGAACTTCA GTCAACATAT	60
TTTCATTGAC TCCTTAGTAC AAGGGAACCT TAATGACCAA CAGATCCTAG AAGACAGTAT	120
GATATTTTCT CTGGCCAGTT GCATAATAAC TGCAAAATTG TGTACCTGGG CAATCTGTTT	180
TTTAACCACC TCTGAAGAAG TTCAAAAAA ATTATATGAA GAGATAAACC AAGTTTTTGG	240
AAATGGTCCT GTTACTCCAG AGAAAATTGA GCAGCTCAGA CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1174:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 421 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

GAATTCGGCC	TTCATGGCCT	AAATATGAAA	AGACTAGACA	TACAGAGATA	TTTATCATAG	60
CAAAAAGTTG	CAAGTACTGG	GGATTGACAA	AATTATCACA	ATGGTTATAT	TATTATTATT	120
ATTATTATTA	TTATTTAATC	AATCAGTGTC	TTGCTTTGTT	GCCCAGACTG	GTTTCAAATC	180
CCTGGCCTCA	CGTGATCCTC	CCGCCTCAGC	TTCCCAAATT	GCTGGGATTA	CAGGCATGAA	240
CCACCGCGCC	TGGCCTATTG	TTCTGCCACA	TCCTTCTTTT	ATTTTGTAGA	GAGAGTCTTG	300
CTTAGTCCAG	GCTGGAGTAG	AGTTGTGCCG	TCATAGCTCA	CTGCAGTCTC	AATTTCTTGG	360
GCTCAAGCAA	TCCTCCTGCC	TCAGCCTCTT	GAGTAGCTGG	GAATACAGGC	ACACTCTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1175:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

GAATTCGGCC	TCATGGCCTA	GTGCTTAAAA	GCTGTTCTCA	TAAGAATTCT	ACTGGCCTGT	60
ATCTACCCAA	CCACTTTCTA	TACCTCTCTT	CCAACCAAAA	GTCTTAATAT	GGGAATATCC	120
CTCACCACGA	TCCTAATACT	GTCAGTAGCT	GTCCTGCTGT	CCACAGCAGC	CCCTCCGAGC	180
TGCCGTGAGT	GTTATCAGTC	TTTGCACTAC	AGAGGGGAGA	TGCAACAATA	CTTTACTTAC	240
CATACTCATA	TAGAAAGATC	CTGTTATGGA	AACTTAATCG	AGGAATGTGT	TGAATCAGGA	300
AAGAGTTATT	ATAAAGTAAA	GAATCCAGGT	GCACTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1176:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

GAATTCGGCC	TTCATGGCCT	AGGGTCACCG	GGTTCGGGC	TAAAGAAGCC	CCCGCGCTCC	60
CTAGAATCCA	GGAACGGGGA	CTGGCAGAGG	CCTGGGTAGG	AGTCCATTGG	GCTGCTGGAG	120
GGCAGATTGC	CCAAAGGGAG	TCCACCTTGA	AGAAAGGGCC	TCTGCAGTGG	CGTACGGCTG	180
CCTTNTAGGC	CAGGGGTTCC	ACAACCCAGA	TGCTGTTCTC	GTTCAGAGCC	CAGAACATCC	240
TTGAAGAGCT	GCTGCAGGTC	CTTGATTCC	ATCTTGGGCA	GTTCTCTGTG	GAAATCCTGT	300
CTAAGTCAGA	GCTAAGCATC	CCTTACCTG	GGGTGCCTGG	CTTCTCAGGG	TCACTGGGCA	360
CTGGGGATGC	CTTACGCCCC	CCATCCTCAG	GTCCTGGTGT	ATCGGCTTTG	CCCTCGAG	418

(2) INFORMATION FOR SEQ ID NO:1177:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

```
GAATTCGGCC TTCATGGCCT AAAGAACCCC GTGGTGATGG TGGACGAGAT TATGAGCTCC      60
AGCCCTCCCA AGTTCACCTT CCCTGAAGCA GGCTTACGAA TCATGATCAC CAATAAGTTT      120
GGACCTAGGA CCCGACTACG GATGGCCAGC AGGATCATCA TTAATGAGCG GCAGAGACTG      180
ATCAACTCGG CCAATGGTGT GAGCAGTAAG CCGCTTCAAA ACGGGAGGCA CGAGAACATT      240
GAGAACGGGA ATGTTCTCTG GAAAAACCCC GAAGACCTTC AGCAGAATCA GGAGCAGCAG      300
CCGCCGCCAC AGCCACCACC GCCAGAGCCA GAGCCGGTGG AGGCTGACTT CCTGTCCCCC      360
TTCTCCGTGC CGGGCTGGAG TGTAGTGGCA TGATCTCCGC TGA CTGCAAC CTCCGCTTCC      420
CGG GACTCTC GAG                                     433
```

(2) INFORMATION FOR SEQ ID NO:1178:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

```
GAATTCGGCC TTCATGGCCT AGTTGTTGTA AGCATATTTA TGGTAATTTG TTA CTGCACC      60
CTTGGGAAAC TAACACACCA AGGTTTCATGG ACAGCATGAA AAAGAAAAAC CATAGGCCAA      120
TATTTGTTAG GAAAAGACAC AAAAGATCTA AACAAATATT AGCTCCTACC CCTCCAAAAA      180
AGCAAATTCA ATCCAGTAAG GCATTGAAA AATATGTCAT GACTAATGAA CTTATTTAAG      240
TTTACCCAC AATACAAGGA TGGTTTAAAT TTTACAAAAA GTATTCATT AATTCATCAT      300
ATTGATAAAG GAGGAAATTT AATTAAGATA ATCTCTTGAT TGTCTCTTCA TATCTTTTGA      360
TTATCTCGAG                                     370
```

(2) INFORMATION FOR SEQ ID NO:1179:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

```
GAATTCGGCC TTCATGGCCT AAAAAATACA AAAAAAAAC NNNANNGAAG AAAAAAGAAA      60
AAACTACCAG CCTGAAATG CATAGTGT TT GCTACCTTAT TGCTTTTAGC ACATCTAGAA      120
AGACACTAAA CCCAGTGAGA TTGCAAGTTT CAAAATATTG TGTGTATAT GGCTTTGCTT      180
AAACGGATAT ATTTGTTTCT GAGTGAAAAC TTTTACGTA GAGGTTTATT TG TAGAGGCT      240
TGTAACCTTA AGTGTAAGTT TTAGTGTGTG TGTTAAGTTG TTCTTACCCC GCATTAGCAC      300
TCGAG                                     305
```

(2) INFORMATION FOR SEQ ID NO:1180:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 605 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

```

GAATTCGGCC TTCATGGCCT AGCTGGGAGG TGTAGGTTGT AGCGAGCCGA GATCAGGCCA      60
CTGCACTCCA GCCTGGGCAC TATTGAGCAC TGAGTGAACG AGACTCCGTC TGCAATCCTG      120
GCACCTCGGG AGGCTGAGGC TGGCGGATCA CTCGCGGTTA AGGGCTGGAG ACCGGCCCCG      180
CCAACACAGC GAAACCCCGT CTCCACCAAA ACCAGTCAGG CGTGGTGGCG CGTGCCTGCA      240
ATCGCAGGCA CTCGGCAGGC TGAGGCAGGA GAATCAGGCA GGGAGGTTGC AGTGAGCCGA      300
GATGGCAGCA GTACAGTCCA GCTTCGGGCT CCGCATGAGA GGGAGACCGT GGAAGAGAGAG      360
GGAAACCGTG GGGAGAGGGA GAGGGAGAGG GAGAGGGGAG CGATTCTGGT GTATCTTAAC      420
TTGGATTCTC ATCCTGTTTG GGTITGCTCA GCTGAATCTA TAGGTTTGTG TATAATACCA      480
AAGTATTTTG TATTAGTGGT TACAACGCAA AGTTGGATCG TGAAGTCAAT TTTGTGGCTT      540
ATGACTAGTA TTATGATTGG TTTTAATAG AATAGAAAAAT GAAATATATAT CCCAGGTATC      600
TCGAG                                         605

```

(2) INFORMATION FOR SEQ ID NO:1181:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

```

GAATTCGGCC TTCATGGCCT AGGAGAGTGG TGATGGTGGC ACAACAATGT GAATGTAATT      60
AATGCTACTG AGTTGTATGC TTA AAAATTTAT GTTATACACA TTTTATGACA      120
AAAATTAATA GATGTATTAA TAAGATTAAA TGGGTTGTTT TAATGTTCTG TTAAAAATCAA      180
ACGCTGAGGG CATTAAATAGA GATTCTTATT TACCCACATG TCCTTTTAAA ACAAGAACCC      240
TCTTTAATAT GTGTTTCTT CTGGTTTATA GAACATATT TAAACGGGC TTACTATTCA      300
ATAATATCAA TTGATTATTG AGGAATACAA GTTAATTAAA TTGTGCAAGT CAGTTGTTTG      360
GCCTTACTTC ATGCTTTTGG TGAACACTGA TGCAGTACTA GAATTACTCT TTTTGATAAA      420
TGCCAAAAG CAGGCCACCT CGAG                                         444

```

(2) INFORMATION FOR SEQ ID NO:1182:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:

```

GAATTCGGCC TTCATGGCCT ACTGTTTCAA AAAAAAAAAA AGGAATCCAA AGAAAAAAAAAT      60
ACATCACCTG CAAAAGGTGA AGAGAGAAAG GAAGCTTTTT CTCTAAAAAT GGTGCAGCTA      120
TCCTCTGAAC CAATTTCTTT CGGTTTAAATG TACCTGTATC TTGGGGTTTT TTTCCACTTA      180
ATTATCCTG GAGCTCTTTC CATAACAACA CTGGAAAAGC ACTCTCATCC TTTTTCCTACT      240
GCTGAACAGA ATTCCACTGT GCGGATGGAA CTCGAG                                         276

```

(2) INFORMATION FOR SEQ ID NO:1183:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:

GAATTCGGCC TTCATGGCCT AGCATGTTGA GATAACTTCT GGGATTAAAA TAGTCTTTTG	60
CTTTACTTTT TTGGTTTCCT AAAACAACTT TATTGACTTT TAGTCCATAC TGTTATATTT	120
TTGTCTTAAA GAAAATTTAA ACTACAAATA CCAAAGAAA ACATTTTAAA TTTAGGGATG	180
AGACTTTGGT GTATCGTGGG TCTAGGTTTA ATGAACACAT CTGGGGTTAA GTTGGCATT	240
CTTCACATCT CCACACCCAC ACCAACCATC ACAGCCCCC AAAATCTCGA G	291

(2) INFORMATION FOR SEQ ID NO:1184:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 364 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:

GAATTCGGCC TTCATGGCCT AAGGGGAGGC AGAGGCTGTA GTGAGCCGAG ATCGCGCCAC	60
TGTACTCCAG CCTGGGCAAC AACAGTGAAA CTCCTCTCC AAAAAAAAAA AAAAAAAAAA	120
AAAACCTGTT TTCCCTTTGT AATTGGTTT TCCTAAAAAT TTTAGTATTT CTAGAGAACA	180
TTTTTTTCCC AGGCTGTTAA CTGGTTCTGA AAACAATCTT ACAGTAAGTA TAATTAAAAA	240
CATACCTCCT TTTCCAAAG CTCATTGTGT ACCAAGCAAG CACGTCTGTA GTTAAATTT	300
GTTACTGAGG TTGGTTCAAG GTAAGAAGAA TGGAGAATAT TTACAACATC TTCAAATTCT	360
CGAG	364

(2) INFORMATION FOR SEQ ID NO:1185:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 384 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GAATTCGGCC TTCATGGCCT AGAGTAAAGG TGGGATTACA GGTGTGTGCC ACCACGCCCTG	60
GCTAATTTT TTGTATTTT AGTAGAGACA GGGTTTCACC ATGTTGGCCA GGCTGGTCTT	120
AAACTCCGA CTCAAGTGA TCTGTCCACC TTGGCCTCCC CAAGTGTGGG ATTACAGTA	180
TGAGTCACCA AGCCCGCCT GTATCCTTA TTAAGAAA CAAACAAACA AACAAAAAAC	240
CCTTTTCTTG ACTGACATCC CTTTTCAGCT GCAGCCCTGT TTCTTTGCTA CCTTTGTAGC	300
AAAATTCAC AGGTGTGTC TACTTGCTGT TTCCAGTTT TTGGTTTTT TCCTTTCTTA	360
GGAAATGAGA GGCCCATGCT CGAG	384

(2) INFORMATION FOR SEQ ID NO:1186:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 344 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

CTCGAGGGGG TCAATTCCTG GGGGCTCTTG ATATTGCTCA GAGCTCTGGA GAAGTGTTC	60
TCCACTACGC TGCTGATGTC CCCTTGGAAG TAGGTGAAAA GGACACACCG GGAATTCAT	120
TCCGTCTTTA TAGGCTTCTG TTTGCCTTTG GGCAGCCGGA TGGCAGTCTT CTTCAATTCT	180
TCCATTGTGA GTGAATGACA CAGGTGACAG CTCTTAATTC TGGACCATCA CCTGATTCTG	240
TGGCTGGGAA AAGATGGCCA GAGCTGCCTG GCTCACTTCA GAGCAGGTTA GTGCTTGCGG	300
AAGCAGGAGC TGAGGATTG TACTAGGCCA TGAAGGCCGA ATTC	344

(2) INFORMATION FOR SEQ ID NO:1187:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 0 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

(2) INFORMATION FOR SEQ ID NO:1188:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 394 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTCGGCC TTCATGGCCT AGCGATGGCT CACATCAGCA CTTTGGGAGG CTGGGGCAAG	60
AGCATCACCT GAAGCCAGGA GTTCAAGCCC AGCCTCGGCA ACACAGTGAG ATCTCATCTC	120
TACAAAAAAT TTA AAAATGA GTTTGGCGTG GTGGTACATA ATCGTGTAGT CCCTGCTACT	180
TGGGAAGCTG AGGCGGAAGG ATCACCTGGG CTCAGAAGTT CAAGGCTGCA GTGAGCTATG	240
ACTGCACCAC TGCACACCAG CGTGGGTGAC ACAGTGAGAG CCTATTAAAA AAAAAACAA	300
AACCAATAAA CCAACAAAC AAAACCTAAA ATACAAAAAA TTAGCTGGGC GCAGAGGCAC	360
GGGCTGTAG TCCCAGCTAC AAAGAAACCT CGAG	394

(2) INFORMATION FOR SEQ ID NO:1189:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 355 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

```

GAATTCGGCC TTCATGGCCT AGGAGATGTA CCTGATAGCA ANTTACTGCN TCTCAGCTCA      60
AAATTCACCC TTCAAAACCT TTTCTACACC AATGGATAGA ATTCCTGTCA GCATTTCTCT      120
TNNAACGTTG AACACAATGT TAAGCTTCCT CAGTGAAGGA CCCTAGATGG ACATTGCAGG      180
AAGAAGGGAC TTCCCTGTT GGACCTAGAG GTTGACCAG CATTGTAGGT GGGAGGACAT      240
CCACTGGCTC TTTGCAATAG CCATGTGTCC ATAAAGTATA GTTTCTCAGC AATCTCATTG      300
CCCAGTCTAG GCNTGGCAAT CACCCTCCTG CAGCCTTATC AACACATTGC TCGAG          355

```

## (2) INFORMATION FOR SEQ ID NO:1190:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

```

GAATTCGGCC TTCATGGCCT ACTTGGAGAG CCTCATGCCG TCTCTACCTT CGCACACTGG      60
TCAAGTATCT GCTGAGCTTC TTGGCCGCAA GGATGCAGAA ATAGGCTGAG GGTCCATGGG      120
AAGAAAGACA CAATGAGGCA GTAGGAGGTG GGAAGAAAAG AAGACAGACT TTCAAAATGG      180
AATTAGGCAC TGGGGAGAGA TCAGTTTCCC CACATCAGGG AGAAGAAGGT ATAGGTGGGG      240
AAGGGGGTGG CCAGGAGCAG AAGGAAGAAG ACTCAAGATG GAAAGGGAGC CGCTGTGCCT      300
GTGGCAATAC CACTTGGAGA GGTGCACTTC ATACCTTCAA GCCTTTTCCC CTGGGCTTTT      360
GATTGTGTCT GTGCCCCCTT TCTGTCTCTC TCTGCAGATG CCCAGTAGGG GCTACCTCAT      420
CCTCGTGCTG TTCTGTGTA GCATTCTCGA G          451

```

## (2) INFORMATION FOR SEQ ID NO:1191:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

```

GAATTCGGCC TTCATGGCCT AACAGAGATG GCTTAGACTT CAAGACTTGA TTTGTAGCTA      60
TGTTCTACCA GCCTCCAGCT GTCTATGCGT TGGCCTCACG CATGTCCCAA ACGTGGTCCC      120
ACACATGTTT ACACATTGGT CCCACATATG CTGAGAGTAA TTACTTTCTA TTCATCAGAG      180
GTCAGAATAG AATAAAGAAT GTTTATGTCA TAGTATGACT TTTTAGGTGA TTTTGAAAAG      240
CAAGAATATG AATTCTATGA AAAAAATCTA TTAGGAAATT ATGGAAATGA CAGAATGCAG      300
AGGTATTTGG AAATAGAAAA AAAACGGGTG ATCTCGAG          338

```

## (2) INFORMATION FOR SEQ ID NO:1192:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

```

GAATTCGGCC TTCATGGCCT ACCGACCACA TTCTACTCTC ACCGCTGTAG GAATCCAGAT    60
GCAGGCCAAG TACAGCAGCA CGAGGGACAT GCTGGATGAT GATGGGGACA CCACCATGAG    120
CCTGCATTCT CAAGCCTCTG CCACAACCTG GCATCCAGAG CCCC GGCGCA CAGAGCACAG    180
GGCTCCCTCT TCAACGTGGC GACCACTGGC CCTGACCCTG CTGACTTTGT GCTTGGTGCT    240
GCTGATAGGG CTGGCAGCCC TGGGGCTTTT GTTTTTTCAG TACTACCAGC TCTCCAATAC    300
TGGTCAAGAC ACCGCACTCG AG                                         322

```

## (2) INFORMATION FOR SEQ ID NO:1193:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

```

CTCGAGGGGT GCTGAGCATT TTTTTCATGA ACCTGTGGTC ATTCATATGT CTTCTTTTGA    60
GATGTGTCTA TTCAGGTCCT TTGCTTATAT TTTAATCAAG TTATTTGTTT ACTATTGAGT    120
GAAAGAGTTC TTTATGTATT TTGTTTATTA GCCCCTTAAC AGATATATGT ATAGCTTGCA    180
AAATAATTTT CCCAGTCTGT GGGTTGTCTC TTCAATTTGT TAATTCCTTT TTTT TTTT    240
GTTGTGTTGGC AGAACGTTT TAGTTTGTATG CAATCCCATC TGCTATTTT TGCTTTTGTT    300
GCCTGAGCTT TTGGGGTCAT AGCCAAAAAA TCCTTGCCCA AACAGCAGTG TTATGGAGCT    360
TTTCCCTAA GTTTTAGGC CATGAAGGCC GAATTC                               396

```

## (2) INFORMATION FOR SEQ ID NO:1194:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 302 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

```

GAATTCGGCC AAAGAGGCCT AGGTAGGGAA TGCAAGCAGG CACTGGGGAG AAATNGGGCN    60
GGAAAGTAGT CTCATGGAAT AAGCCTTTT TACTTTAAT CAGCATTAT TGCTTTGATT    120
AAAAAATAAT TTCAAAAATC TTTCTGCTTA CTGAATAAAG AATGCNTTGG AAAGAACAAG    180
AATGGATAAA GGAGAGTGCT TAGGAGGCTC CTGGAGCAGG AAGAGGTGGT GGCGAATAGA    240
CTACCGGAGC AGTGGAGGGT GGAGATGGAG AGACGTGGAA AGACTGAAGA CATATCCTCG    300
AG                                         302

```

## (2) INFORMATION FOR SEQ ID NO:1195:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 377 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

```

GAATTCGGCC AAAGAGGCCT ACTCAGAAAC ACAAGGGAAA GGACAGAAGA GGGACCGGGG    60

```

```

AGGAAGAGAG TGAGGAGAGA GGTATGTAAG GTGTTTAGTA CACAGTAAGT GCTCAAAATG      120
TGTCCTACTCC CTCTGCCAGG AGAGAGCAGA AAGTCAGAAA GGAGAGGACA CCAATAGAGA      180
GGAAAGAAAG GGGCCAGGCG CCGTGGCTCA TGTCTGTAAT CCTAGCACTT TGAGAGGCAG      240
AGGTGGGAGG ATCGCTTGAG CCCGAGAGTT CGAGACCAGC CTGGCCAACG TAGAGAGACC      300
CTGTCTCTAC AAAAAATACA AAAATTAGGC TGGGTGCGGT GGCTCATTCC TGTAATTCCA      360
GCACTAGGGA GCTCGAG                                     377

```

## (2) INFORMATION FOR SEQ ID NO:1196:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 341 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

```

GAATTCGGCC AAAGAGGCCT AGTGTACAC AGCACTCACA CTAAAGATGA AAAATTCCAT      60
TAGCTCATCC TGTTCTTCT GCTTACTTAC CTAATCATCT GTTATGATT TAAAAAATA      120
GGGTACTGT GAAGAGAGTG CTTGTGTGTG AGACAGAGAG GGAGGGTTGT TTTTCAATG      180
TATAGAATAT ACCAATGTAG TTTTGGTTG GGTATTTTTT TAAATCATGA CTTTATTAAA      240
TTTACTTAAT TAATATTCAT TTTTATCCTT TTTTATGTT TTAAAGTTT TTATTATTTA      300
TTAATTATT TGAGATAAGG TCTTGCTCTG TCACCCTCGA G                               341

```

## (2) INFORMATION FOR SEQ ID NO:1197:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 363 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

```

GAATTCGGCC AAAGAGGCCT ACAGAAATTT AAATTAATCT CTCATCCATT GGCTTTTGCT      60
ACTTAGGTT AATATTAAAA TATAACATAC ATTTTGGGG TTATGCTGT TAGCTCCAAA      120
CCAAAAGATT TTGGAATTT ATTTTGAAA TTTTGTGTTT AGAATATGAA TAAATCTGCT      180
TATCAGAAA AATTAAACCT TGATAACTTG GGACCTCCTA TTCCTGTATG TTCTCTGACA      240
TACATTGAGG GATTGGCTC TCTTTGTTT ATTGTTTTA CTAGTCAGAC ATTCCTTTGG      300
CTGCCCATAC TTAATTCTGT TGGGTGTTT CGCCCCGCC CTCAGCTTCT GAAGCTACTC      360
GAG                                     363

```

## (2) INFORMATION FOR SEQ ID NO:1198:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 169 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

```

GAATTCGGCC AAAGAGGCCT ACCTGACAAG TGTTAAGCAG ACACATAGAG AAAGTTAAAA      60

```

TTTGTTTTGA GTCCTTAAGA GTGAAGTTAA GGAATAAGAC CTATAAATGG ACACCATGTG 120  
 ATGAGTGCTG TCATCAAAGC ATGGACAATG GGCTTTGAGA GTACTCGAG 169

## (2) INFORMATION FOR SEQ ID NO:1199:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 82 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

GAATTCGGCC AAAGAGGCCT ATAAAAACGT TATGTTATTT TTGGAAGTTT TTCTCATATC 60  
 TCTGTTGCCA GGGTCACTCG AG 82

## (2) INFORMATION FOR SEQ ID NO:1200:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 349 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

GAATTCGGCC AAAGAGGCCT AAGGTGGTGC AGTGGGGACA GCACCTCCGA CCCTATGGGG 60  
 TGTACCTTCA AGTAGCAAGG CTGACAATGA TGTCTAGAAA GGTCTCCACT TCTGCCTGAG 120  
 TTTTGCCAAA CCCAGTGGTC TATAGGGATG TGGCAAAGA ATGACCTACC GCAGTGTGAT 180  
 TATCAGTGTT TTTTAAATA AAGAGCACAG TTTTGCCTTT AAAATAATTC ACATCAACGG 240  
 TATTTGGGAG AACATGGAGC TGGCATAACA TTGGCGTAGA AAGCAGGGCC AGGCCCACCC 300  
 ACGGGGCCCT CGTGTGGGA CGGGTGCCTG AGCCCCTGAG CCCCTCGAG 349

## (2) INFORMATION FOR SEQ ID NO:1201:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 318 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:

GAATTCGGCC AAAGAGGCCT AGGGGAAGAG GTTCAAATGT GGGGCTGGAC GTGGCCTTGG 60  
 GGTGCGGATC CCTCACAAN ANTTCGTCTT CATAATCCTN ATGAGGTNGC GGGGAGTCCC 120  
 GCAGGACAGA CTCAGATATT CGGAGGGAGA TCCTCCCTGG AGTGCTCGGG GCCCAAGAG 180  
 GTGTGTCTGG GTCAGAAGTG CTGCATAAAC TTGGAAGACT CTGCTGTTTT TGATAGTGCT 240  
 TCAGGTTTGC AAAATCAGGG GCTGAGGATT CCTCAGGAAG GNTGTCTCT CTGGCTGCGT 300  
 GGGCCCACTT TGCTCGAG 318

## (2) INFORMATION FOR SEQ ID NO:1202:

- (i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

```
GAATTCGGCC AAAGAGGCCT ACTACAAGAT AACTTCCCAG TACTTTAAAA AAGTCTCAAA      60
GTCATAAACA AGAAAGAACT GAGGGACTAT TGCATATTGG AGCGATCTAA AGAAGTATTA      120
CAATTTGTGG AATTCTTGAT TAAATCCTGG ACCAGCAAAA GGACATTAGT GGGAAAATTG      180
ATGAAATTCA AATGAGATCT TATATTGAAG TTAATTGTGT CAGTGTACAT TTCCTGGTTT      240
TCATAATTGC AAGTGATTAT GTAAGGTTTG TTAATATTGG GAGCAACCTC GAG              293
```

(2) INFORMATION FOR SEQ ID NO:1203:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

```
GAATTCGGCC AAAGAGGCCT AGTTTTGAGA AATAAATGGG ATAGCACGTG TAAATCACAT      60
AGAACAGTGC CTGGCACATA AACACTCAAT AAATGTTAAT TGATACTATA ATTTATCTAA      120
TTTATCTTTA TTCCTCCTGC AAAGATTCCT TGGACTATT AGAATCTCTG GTCACCTCTAA      180
TGAGATGGTG GTGTTTTTTT TTGGTTTTTT TTTTTTTTGC TTTAAAGAAC TTCTGTAGAT      240
CAGCTGTAAT TTAGTGCTAA ATAATCTCTT GTAGTTATTA TTTTCAGTCT ACTTGGGATC      300
CTCGAG                                         306
```

(2) INFORMATION FOR SEQ ID NO:1204:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 598 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

```
GAATTCGGCC TTCATGGCCT ACGAGATAAT ACTGGAGTCA ACTGTACATT AACTTGCTTG      60
GAGGGCTATG ATTTACAGA AGGGTCTACT GACAAGTATT ATTGTGCTTA TGAAGATGGC      120
GTCTGGAAC CAACATATAC CACTGAATGG CCAGACTGTG CCATTTCTAG AAAAACGTTT      180
TGCAAACCAC GGGTTCAAGT CCTTTGAGAT GTTCTACAAA GCAGCTCGTT GTGATGACAC      240
AGATCTGATG AAGAAGTTTT CTGAAGCATT TGAGACGACC CTGGGAAAAA TGGTCCCATC      300
ATTTTGTAGT GATGCAGAGG ACATTGACTG CAGACTGGAG GAGAACCTGA CCAAAAAATA      360
TTGCCTAGAA TATAATTATG ACTATGAAAA TGGCTTTGCA ATTGGACCAG GTGGCTGGGG      420
TGCAGCTAAT AGGCTGGATT ACTCTTACGA TGACTTCCTG GACACTGTGC AAGAAACAGC      480
CACAAAGCATC GGCAATGCCA AGTCCTCACG GATTAAAAGA AGTGCCCATC TATCTGACTA      540
TAAATTAAG TTAATTTTAA ACATCACAGC TAGTGTGCCA TTACCCGATG ATCTCGAG      598
```

(2) INFORMATION FOR SEQ ID NO:1205:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 325 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

```
GAATTCGGCC TTCATGGCCT AGTCTAACCA TTATGGAAAG AGAACAGTCC CTTCAATATC    60
CCACTATCTG TAGGGCATGA CACAGCCAAA TCCAAGTCAG ACCATCCCTT TGATCAATTT    120
CTACCAATAA CTGTTCAATTG CACACCCTGT ACAGAGCACT GCGACCAAGC TGTTCCCTTGA    180
CCTTCTCCTT TCCTAGTGTT TGGTCACAAC ACTCCCTAAA GCCCTAACTC AAGTTCTTGG    240
GATGATACCA CCAGAAGAGG GAAAAAAGGA GCCGTCTTCC TGAAGTCACC TGGGTAGAGC    300
AGCTGGGGAT TTTCCCTCC TCGAG                                           325
```

(2) INFORMATION FOR SEQ ID NO:1206:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 126 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

```
GAATTCGGCC TTCATGGCCT ACCCACTGCA ATGATGTTTA CCAGCACTAT TAACTTACTG    60
CAGACTCTTT GTCTGTCTGC TGGAGTTCAT GCTGAGATCA TGCAGAGCGA AGCCACCAGA    120
CTCGAG                                                                    126
```

(2) INFORMATION FOR SEQ ID NO:1207:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 349 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

```
GAATTCGGCC TTCATGGCCT ACTAATGTGG TTTTGTGAAG TTGGTGTCAA ATTTACGAGC    60
ATAAAATTGT TTGTAATATT CCCTTATATT CTTTAAAC TGCTATAGGA TCTGTACTGA    120
TGTCTGTTT CATACCTGAT GTTTGTGTC TTCGTGTTGT CTTTTTNGT TGTTGTGTT    180
GTTGTTGTTA GTTTTGATAG AGGCTTACAA ATTTTGTCT TAATTGATTT TCTCTATTTT    240
CCTCTTTTAT TTCTTCTTTT AATAATTCCT TCCTTCTTGC TTGGCTTCA TTTTGCTCNT    300
TTTAGTTTC TTTTGTAAT TCAATTACTG GTTCGACATC TTTCTCGAG                    349
```

(2) INFORMATION FOR SEQ ID NO:1208:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 198 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

GAATTCGGCC TTCATGGCCT AGAGTGATTG TGGGTATATA TAGAGCAGAT TGTTTTAAAA	60
AGAGACTTGT GAGCCAAGAC TAAATCCTGG TTTACTATT TATTAATCTG TATAGCTATA	120
GCCAAGCTAT TAAAACTCCC TTATTTCTCA GTTTTTTCGT TCATGAAGTG GGTACAGTAC	180
CTAAAGGTTT ATGTTGAG	198

(2) INFORMATION FOR SEQ ID NO:1209:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 546 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

GAATTCGGCC TTCATGGCCT ACAGGGGATG ATTCAGTCCG ATACAGTCAG GGAACCGTAC	60
ATAGAATAGA ATGACTAGAG TATAATCTGC AAAGGATGGA ATGGCAGAAG TAGTCAGAAG	120
AGGTATGCAA TGGTTGGATC AAAAAGAGCT TTGTATCCAG CGTCACAGGG CCTCAAATTG	180
TACTGTAATC ATATGTCCTT TACCTGTTCT CTGGCATTTA AATATTCTTG TAAAGAGCTA	240
AGCCATTACT GATAAAATGT CTGTTGTGTA CAGTTGTACA AATTAAATTC AGTCACAAAA	300
CTGAAAGAAC AGCAGTGGGA CATCTATCCT AGTGAAAGTT AGAATACACT TTTGTGGTCT	360
TTAATAACAG AGTTGATTGT TTACCTTCTC CTTTGGTTAG AAGACTGGTA TGGGGATTGT	420
TTGGAATGAA GAGGTAGGAG AGAGAAATAA TTCAATTCTG TATTCTCCCA TCATCTTTAT	480
ATTTGAAC TG AGAAATGTGT GTTTCTATCA TTCATTCAAA TTATTAAACA AAAACAGAGA	540
CTCGAG	546

(2) INFORMATION FOR SEQ ID NO:1210:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

GAATTCGGCC TTCATGGCCT AAAGATATTT TAGCTAACAG GAGAACGGCC CAAGGGGGCA	60
TTTCATGTT AATTACCAA TGTGGGCTTG TCAAAATCAA ATAGCTCCAG GAATAATGCA	120
AGTAGCTCTG CATCATTATA TTGTTTGGCC CTCAACCCAA TATTAGCTAC TTTTAAAAAT	180
CTGGGTTTAT TAGGCTTTTA AATTTAAAAG AGGAATCACT ATTGGGAGCC TTCAGAAGAA	240
TGTAAAGCAC AGCCAGCAGT GCCAGAGTTT AATGTAAATG ACATTAAAAA ATAGTTTCAT	300
ATCACACACT CGAG	314

(2) INFORMATION FOR SEQ ID NO:1211:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCGGCC TTCATGGCCT ACGCATGAAA ATTACTTAAA CGTTGCACAC AACGTTTCAC	60
AAAATCTTTT GTGAAAGAAG AAAAGGAAAT TCAGTGTGTG AGTCTCAGCA GGAGTTAAGC	120
TAATGCAGCT TAAATAATG CCGAAAAAGA AGCGCTTATC TCGGGGCAGA GTGCCCTGA	180
TTCTCTTCCT GTGCCAGATG ATTAGTGCAC TGGAAGTACC TCTTGATCTG GTACAGCCTC	240
CAACCATCAC CCAACAGTCT CCAAAGATT ACATTATTGA CCCTCGGGAG AATATTGTAA	300
TCCAGTGTGA AGCCAAAGGG AAACCGCCCC CAAGCTTTTC CTGGACCCGT AATGGGACTC	360
ATTTTGACAT CGATAAGAC CCTCTGGTCA CCATGAAGCC TGGCACAGGG CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1212:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCGGCC TTCATGGCCT AAGGGAAGCC TGAGCAGGCC AGTGGGCTGG GCGCAGAGCG	60
GGGTGTGGGG GCCAGGCTGT GTGACCATGA CAGAAAGAAC CCCAGCTAGC CCAGCTTGCT	120
CCCTGGGGCA GGAATCACC ACCCCGTGAG GGCCTGGGGT AACAGTGGTC CAGTGGCCAA	180
GACCAGCAGT CGCCAGGTAC CCACTGGCCA CAAACCAACC AGAATACTTG CCGCTGGAGG	240
CCCCAGCCA GGGTCAACCC AGCCGCCGCC CTGTCTTTGT GTGTGGGTGG GTCAGCCCCA	300
TCCCTGCCTT TCGACTAAA AACTCGAG	328

(2) INFORMATION FOR SEQ ID NO:1213:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

GAATTCGGCC TTCATGGCCT AGAGGCATTA ATATATTTTA CATTACTGGG ACCATAGTAC	60
AGAAATTTCT AAATGGTTTG TAAATAACT TGTATTGTGT GTGTTGTAA AAGCAGTTAA	120
TACAATGGAA AAATCGTAA TAAGAAGATA CAGTTTAACA TCAAAAAGTT TACCCAAGGT	180
AATTATGAGT ACTACCTGGC AAAACTTCAC GGAAGCTGTG GTATCACTTT TATGATGGAA	240
GAATGGTGTT TGCATTTTGT GTAAAAGTAC TTGCGGCTGG GCGTGGTGGC TCATGTCCCA	300
GTGCTTTGGG AGGCGAAGGC AGGTGGATCA TCTGAGCCCA GGAGTTCGAG ACCAGCCTAG	360
GCAACGTGGC AAGAGCCTGT CTCTCCAAA CCTACAAAT TTAGCCAAGC TTGGTGGTGT	420
GAGCCTGTAG TCCCAGCTAC TTGGGAGACT CACGCTGGAG GATCTCTCGA G	471

(2) INFORMATION FOR SEQ ID NO:1214:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 585 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

```

GAATTCGGNC TTCATGGCCT AGTCAATGAA AGAATTCCTG CAGTTTCATT ACCTATGAAN      60
ATTGTGGGGT CCTCTTGTGG GACATGAAAG GGGGACAGAT AGATGAATAT TGTTTGGATT      120
TTTGGTCTCTC AGTGCCATCC ACAGACTCCA GAAGGGATCA GCTATTTGCT GAACAATCTT      180
TCAGTTCTCA TAGAGCCCTG ATATGTTTTC AGGGTCCACA AATGCCTGTG ACGGTGGCCT      240
CAAGAACCCA GTGTCCCCTT GTAGGTGGGA TAGCATACCT CTTAAAGGTC AGCATGAGAT      300
TCCACCCATG TCATCCCCAG CATTGGTGGG GTCAGCAGAT CCTCTCTCTG GGGTTTCNTT      360
TTCTGCTCAA CCTCCCTGCT TTGATGGAAT GCACAGACAA GCCCCATCTT GGTGGAAGGG      420
TCTCCCCATG GGCTGTCTCT GAGGGTCACT CCCACAGATA TGCCCCATCC TGGTGGGAAGG      480
GTCTCCCTGG GGGCTGTCTT GGAGGGTCAG TCCCACAGAC AAGCCCCATC CTGTGGGAGG      540
GTCTCCCCGT GGGCCATCCT GGAGGGTCAG TCCCACAAAC TCGAG                        585

```

(2) INFORMATION FOR SEQ ID NO:1215:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 529 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

```

GCGATTGAAT TCTAGACCTA CCTCGATAAC CCAAGAGACT ATGAGCAGAC ATGACATCAT      60
TGCATGGGTT AATGACATAG TATCTTTAAA CTACACAAAA GTGGAACAGC TTGTTTCAGG      120
AGCGGCCTAT TGCCAATTCA TGGACATGCT CTTCCCTGGC TGCATTAGTT TGAAGAAAGT      180
AAAATTTCAA GCAAAGCTGG AACATGAATA TATTACAAT TTTAACTTC TGAAGCATC      240
ATTTAAGCGA ATGAACGTTG ATAAGGTAAT TCCAGTGGAG AAGCTAGTGA AAGGACGTTT      300
CCAGGACAAC CTGGATTITA TTCAATGGTT TAAGAAATTC TATGATGCTA ACTACGATGG      360
GAAGGAGTAT GATCCTGTAG AGGCACGACA AGGGCAAGAT GCAATTCCTC CTCCTGACCC      420
TGGTGAACAG ATCTTCAACC TGCCAAAAAA GTCTCACCAT GCAAACCTCC CCACAGCAGG      480
TGCAGCTAAA TCAAGTCCAG CAGCTAAACC AGGATCCACA CTTCTCGAG                        529

```

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

```

GAATTCGGCC TTCATGGCCT ATCGGCCCCG CGGCGGAGGG ANANGATCCT CCACAGTGCT      60
CTCTTCAGTN CCCCTTCAAA TGCTGTTTAA TCTCAGCGGA ANGTACTACG CCCTGTATTT      120
CCTCGCCACG CTCCTGATGA TCACGTATAA AAGTCAGGTG TTCAGCTATC CTCACCGGTA      180
CCTGGTCTCTC GATCTTGCTC TGCTGTTTCT GATGGGGATT CTAGAAGCAG TTCGGTTAAA      240
CCTGGATACT CCCCTGATGC CCGATGTCCA GTGAGGAACC AAGGCTGCGG GGAAGGGTGG      300
CCCCCACCTT TCCTCTTGTT ATCAGGCCCTC AGACACACTA GGAGGATGGA GCGAGTTCT      360
CTCAGCTGCC CATCCCACTG AGGGGTGCCC GGCCGTCAGT GTCTTGTTGT CACTCACGTC      420
CCAGAACCTC TAGAGCTTGC CCCCAGGGC GGGCACTGCT GGGAGGGTGC GAGCACCGCT      480
GCGGCACAGA GGCCCGGTTT TTGNTGATC TTCTGGGGCC TGGGCTGCC CTGAGGTGGT      540
GGGGACAGGG TGTGGCCTGG CCCTGCTGGG GGCTGCTAGG CCAACGGGAC CCTCCCCAAG      600

```

CGCGCCGCAC ACTGCAGGTG CCTCGAG

627

## (2) INFORMATION FOR SEQ ID NO:1217:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

```
GCAAATATTG AACATAATCT AAAATCTGAG GAAGAAAAGG ATCAGGAAAA GCAACAGATG      60
TTTGAAAAATA AGCTTATAAA ATCTGAAGAA ATTAAAGATA CTATTTTGCA AACAGTAGAT      120
TTAGTTTCTC AAGAGACTGG AGAAAAAGAG GCAAATATTC AGGCAGTTGA TAGTGAAGTT      180
GGGCTTACAA AGGAAGACAC CCAAGAGAAA TTGGGGGAAG ACGACAAAAC TCAAAAAGAT      240
GTGATCAGCA ATACAAGTGA TGTGATAGGA ACATGTGAGG CAGCAGATGT GGCTCAGAAA      300
GTGGATGAAG ACAGTGCTGA GGATACGCAG AGTAATGATG GGAAGAAGT GGTCGAAGTA      360
GGCCAGAAAT TAATTAATAA GCCCATGGTG GGTCTGAGG CTGGTGGTAC TAAGGAAGTT      420
CCTATTAAAG AAATAGTTGA AATGAATGAA ATAGAAGAAG GTAAAAATAA GGAACAAGCA      480
CTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:1218:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

```
GAATTCGGCC TTCATGGCCT ATGAATTCTA GACCTGCCTC GAGATCTGAG CAGGAATTAC      60
TCTCAGATGA CGCTTCATCT GTTTCACAAA TTCAGTCTCA AACTCAGTCA CCGCAAAATG      120
TCCCTGAAAA ATTAGAAGAA AACCATGAGC TGTTTTCCAA GAGCTTCATC TCCATGGAAG      180
TGCCTGTCAT GGTAGTAAAT GGCAAGGATG ATATGCATGA TGTGAAGAT GAGCTTGCTA      240
AGCGAGTGAG TAGGTAAAGC ACAAGTACAA CCATAGAAAA CATCGAGATT ACTATTAAGT      300
CTCCAGAGAA AATCGAAGAA GTCCTGTCAC CTGAAGGCTC CCCTTCAAAA TCGCCATCCA      360
AGAAAAAGAA GAAATTCCGC ACTCCTTCTT TTCTGAAAAA GAACAAAAAA AAGGAGAAAG      420
TTGAGGCCTA AATAAAGTCT TTTTATAATT ATTATTATAA CAATGTGACA TTGCACATCT      480
AAATACCACA TCTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:1219:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 524 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

```
GAATTCGGCC TTCATGGCCT AAAAGATGGC GGAGGTGCAG GTCCTGGTGC TTGATGGTCG      60
```

AGGCCATCTC	CTGGGCCGCC	TGGCGGCCAT	CGTGGCTAAA	CAGGTACTGC	TGGGCCGGAA	120
GGTGGTGGTC	GTACGCTGTG	AAGGCATCAA	CATTTCTGGC	AATTTCTACA	GAAACAAGTT	180
GAAGTACCTG	GCTTTCCTCC	GCAAGCGGAT	GAACACCAAC	CCTTCCCGAG	GCCCTTACCA	240
CTTCCGGGCC	CCCAGCCGCA	TCTTCTGGCG	GACCGTGCGA	GGTATGTGTC	CCCACAAAAC	300
CAAGCGAGGC	CAGGCCGCTC	TGGACCGTCT	CAAGGTGTTT	GACGGCATCC	CACCACCCTA	360
CGACAGAAAA	AAGCGGATGG	TGGTTCCTGC	TGCCCTCAAG	GTCTGTCGTC	TGAAGCCTAC	420
AAGAAAGTTT	GCCTATCTGG	GGCGCCTGGC	TCACGAGGTT	GGCTGGAAGT	ACCAGGCAGT	480
GACAGCCACC	CTGGAGGAGA	AGAGGAAAGA	GAGAGCCACT	CGAG		524

## (2) INFORMATION FOR SEQ ID NO:1220:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 444 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

GAATTTCCGC	CTTCATGGCC	TATGATAAGT	TCATTCTGGC	TGGAGTATGG	TGGAGAGCCA	60
TGGAGTACTG	GTAGGTGAGG	GGCTGGAGGA	GGGATAGGTT	GGAGATGTTG	AGAAAGGCTT	120
TAAAGATCGT	GGTGAGTTGT	TTGGGTTTGT	GTTGGCTGTG	AGGAGTCATC	AGAGGTTTTA	180
ATGCAGGAAA	GTGGTTTGTA	CTCTATACTC	CAGCAGCAGA	GGTTGGTTGA	GTGGTGCTCA	240
AACTTTGTTG	TGTATTGGAA	TCATCTGAAG	AGCTTATAAA	AATACCAGTA	CCCAGGCTAC	300
AAACAGTAAA	ATCAGATTTT	CTGAAGGAGA	GGCCCAGATA	TGGATTTTTT	GATAATTTCC	360
CAGGTGATTG	CAGTGCCTAT	CTGAGTTTGA	GAAGTACTCT	TTAGAGGGG	TCTGATGGAG	420
TAAGGAATTC	AGAGGCCACT	CGAG				444

## (2) INFORMATION FOR SEQ ID NO:1221:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 354 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

GCTTGAACAA	CACAGGTTTG	AACTGTGCAG	GTCCACTTAT	CCATGAGTAT	TTTCAACCAA	60
ACTAGTATCA	AATATACAGT	ATACGCGGGA	CTTGAAACCC	ACGTGTAAGG	AGGACGAAGT	120
TTTCGTGTAA	GTCAGCTCCG	AAGCACTGAC	TTTGGGACTT	GAATTTGCAC	AGATTTTGAT	180
ATGAAGTGGG	GAAGGGGGTA	ACTTGGTACA	AATCCCCTGC	ATATACTGTG	GGATGACTCT	240
AGTTTGATTG	TGGAGTGATA	TATGGAAGAC	ATAATTCTTC	CCATAAAAAA	TCATAATCTT	300
GGTAGTCTAT	CATAGTCTAG	CATTAAGAGC	ATGAACCTTG	GAGCCGTCCT	CGAG	354

## (2) INFORMATION FOR SEQ ID NO:1222:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 312 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

```

GAATTCGGCC TTCATGGCCT AGCTAGTTCA TGCTTGCGTT GAAAGAGTGG TCGTTTGCGC      60
TGGGTCATCA CTGTGTAGTA TTGGGGATAC TTAGGTGAGA AAAAAACTTA ACGCTAGAGA      120
CGTTCACGCA CTAGTGAGGA AGCCAGGATT GTTGCCCTAG AGTTACAGTA GATAAAAGTA      180
CCTCAGAGAA CTGCGGGGGC TCCCAACCTG GACGCTTGCA CCGGAGTATT AAATCCAGCT      240
AGAGAATGGC ATGTGCAAAG ATACAGAGCT TTAGAAGTT GCCTGCATTG CTTGGCCCCA      300
TCCTCACTCG AG                                     312

```

## (2) INFORMATION FOR SEQ ID NO:1223:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

```

GAATTCGGCC TTCATGGCCT AATAAAAACT GGCTGGGCGT GGTGGCGGCA CCTGTAATTG      60
CAGCTATTTG AGAGGCTGAG CCAGGAGAAT CGCTTGAACC TGGGAGATGG GGGTTGCAGT      120
GAGCCGAGAC CGCCCCATCG CACTCCAGCC TGGGCAACAA TAGTGAAACT CCGTCTCAAA      180
AAGAAAAAAA GTTTCCTTAG AATGGAAAAT ATTCAATCAT GAGCTCTTTT GGCAATCCGT      240
CATCAGTATA TTCTGAAAAC CAATAAGATG TTGCCAAGTT GGGGGCGAGA GCTATGTAAT      300
GCAAGGCATA TGCCTGATGA AGTATACAAA TACACCTGAC CAGAAACTTT GTCTCCCAAA      360
TAAGTCTCGA G                                     371

```

## (2) INFORMATION FOR SEQ ID NO:1224:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 404 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

```

GAATTCGGGC TTCATGGNCT AAAGAAAAGT GCTGTAAATG AGGATGTGGC TTGCTGGGCA      60
ATAATCATTG TAGAGTGGTA CACCCAGTGC CTTACAGGA TGCTTGAATA CTGCTGCAA      120
GCCTCGTGTC ATTAGCCCAG TAGGCATATG ATAAGCCTCT GGTCATCATT TCCACTGTTA      180
AGAGTTAGTG TCAGATATGG AGCACCAATA GGCTTGTAAG TGAGAGCATC CCTCAAAGTT      240
GTCACCTTAG GAGACTCTGA TGACCATGAT GCTGCCATTG TCCAAATGTG CACTCATCTG      300
TCTTTTGGGG AGTGATTCCC GACAATTAT AGATTACAAG AGAAAAGCAG TCTGTATTTT      360
CATCAAATGA TAGTTTAAAT GGAAAATGAA TCAGAAGTCT CGAG                                     404

```

## (2) INFORMATION FOR SEQ ID NO:1225:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:



GAATTCGGCC	TTCATGGCCT	AGTTGGGGTT	AATTATGGCA	CCTAACTTAT	AGAAGAGGAA	60
ACCAATTTAG	AGACATTAAA	ATACTTGTTT	AAGGTTACAC	GGCAGGGAAA	AGGCAGAGTC	120
AGGATCTGTA	TTCTGTAGTC	TGAATCCAAA	GCGAATCCAA	AACTCTGAGG	TGCTNTGCTC	180
TGCTACCTGC	TGATGGTTCT	GCTGGGGGAT	GCTCAACCAC	CAGATGTCTT	ACTTGGGAAC	240
TGCACTGGAG	GTCGAGGGTC	TGCATTCTCC	TTCTGTCGTA	AAATCACAAC	GTCCCCATCT	300
TTCAAGCCAT	AAGAAGCCAA	TGATCTGTGG	TTGTCTGTGA	GAGGTCTTTC	CGCATAGACG	360
ATCTGGCTCT	CGGCTGCGGG	GATGCCAGAC	TCGAG			395

## (2) INFORMATION FOR SEQ ID NO:1226:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 284 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

TCAAAGGTCC	TTTTGTGGAA	GCGGAGGTGC	CCGATGTTGA	TCTGGAGTGT	CCTGATGCAA	60
AGTTGAAAGG	GCCCAAGTTT	AAGATGCCTG	AGATGCACTT	CAAGGCCCCC	AAGATCTCCA	120
TGCCTGATGT	GGACTTACAC	CTGAAAGGCC	CCAAAGTCAA	AGGGGATGCG	GATGTGTCCG	180
TGCCAAAATT	GGAGGGAGAT	TTAACAGGCC	CCAGTGTGGG	TGTGGAGGTG	CCTGATGTTG	240
AGCTGGAGTG	TCCTGATGCA	AAGTTGAAAG	GCCCTTGTCT	CGAG		284

## (2) INFORMATION FOR SEQ ID NO:1227:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 718 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCGGCC	TTCATGGCCT	AAGCAGACGG	GCAGTAGGTC	CCAGAGTTAT	ACTTCGGAGC	60
ACATGTTCAA	GAGGGAAATG	ACGACCGGCC	CCCACGGTCC	TGGGATGCAG	GTGTGAGGAC	120
TGAGAAATGCT	GGACGGGGTG	TGGTCGAGGC	ATGGTCAGGG	TGGCCCCGAG	CTGTGCCCCA	180
CCCCAGGGAT	GCAGCAAGGG	TGCTCTGTGC	AGGACCCCGA	ACTTGGGCTC	TGCCCCATTT	240
CAGTGTCTGT	TGCATGTCAC	GCTGGCATCT	TCGGCATGTC	CACAGTTTGT	CACCCCCCAT	300
TTGGAGAAGC	TGCAGCGGAA	GATGGTTTCC	TCTGTGCCTT	GCAGGCAACG	TCATCCATCC	360
AGATCCTCCC	AGTGCCTTGC	CCGAATCGAN	CTGTGCGGTA	CACTCCTCCA	NACCGCGGAA	420
GCCGAGCATG	CGGCACACCA	CGTCTCCGTC	CTTCTTGTC	CAGCCGTCGT	CACACACAGT	480
GCCCCAGCGC	CGGTCGTGGT	ACACTTCCAC	GCGGCCCTCG	TGCGGACCTG	AGCCATTAC	540
CAGGCGGATC	ATCATCGGGG	CCTCCACGCC	ACTGGCATCC	CCAGCTCTGT	CTCCTTTCTC	600
TCCTTTCTCT	CCTTTTGGGC	CTCGGTCACC	TAAAACAGAG	GAGGAAACTG	GCATTAGAAA	660
TGGAAAGAAA	TCCTAATTGT	GAATAAAATA	TTACCTGCAG	GAGATTGATG	AACTCGAG	718

## (2) INFORMATION FOR SEQ ID NO:1228:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 389 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC	TTCATGGCCT	AGCTGGGTTG	ACCCTGCAGA	GCCAGAGAG	CCGAGGGGCC	60
ATGTGTGCTG	GCATGGGGCT	CCCTGCCCCCT	TTCTGAGGCT	CAGCACGGAG	GGGAGAAACC	120
CACATTTTCA	GAGGGAACCA	GCAGCAGAGC	AGAACCAGTA	ACCAAGATCC	CGGCAACCCC	180
TTGTGCTGAC	CCCACACACG	CTTCCCCCTCT	TCCTGGCCAG	GCCACTCCAA	AGCTCTGTGC	240
ACACAGACAA	TAGACATCAG	GACTTTTCATC	TTCACCTCGTC	ATCTGGCAGC	AGAGAGCCTG	300
CAGGGCTGGG	CTGCAGGGAG	AAGAGTTCCT	TTCCTCACGC	ATCCAGGCAA	GGGGAGAGCA	360
GCTCTGTGCC	TGCCACTGGC	CCACTCGAG				389

## (2) INFORMATION FOR SEQ ID NO:1229:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

GAATTCGGCC	TTCATGGCCT	ACACAAACAT	GATTTTATTT	TATTATTTTA	TTTTATTTTT	60
TTATTTTATT	TTGAGATGGA	GTCTCGCTCT	ATCGCCCAGG	CTGGAGTGTA	GTGGCATGAT	120
CTCGGCTCAC	TGCAAGCTCC	GCCTCCTGAG	GCGGGAGAAT	TCCTTGGGCC	TGGGAGGCGG	180
AGGTTGCGGT	GAGCTGAGAT	TGCCCCATTG	CACTCCAGCC	GAGGCAACAA	GAGCGAAACT	240
CCTTCTCAA	AACAAACAA	CAAACAACAA	CAACAACAA	ACTCTCGAG		289

## (2) INFORMATION FOR SEQ ID NO:1230:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 600 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

GAATTCGGCC	TTCATGGCCT	AATGTGTTTT	ATGAACGATA	GATCACATCA	GAACTCCTGT	60
GGGGAGGAAA	CCTTATAAAT	TAAACACATG	GCCCCCTTAG	AGACCACAGG	TGATGTCTGT	120
CTCCATCCTT	CCCTCTCCTT	TTCTGTCACC	TTTCCCCCTA	GCTGGCTCCT	TTGGACCTAC	180
CCCTGTCCTT	GCTGACTTGT	GTTGCATTGT	ATTCCAAACG	TGTTTACAGG	TTCTCTTAAG	240
CAATGTTGTA	TTTGAGGCT	TTTCTGAATA	CCAAATCTGC	TTTTTGTAAG	GGGTAAAAAC	300
ATCACAAAGT	AGGTCATTCC	ATCACCACCC	TTGTCTCTCT	ACACATTTTG	CCTTTGGGGA	360
TCTGGTTGGG	GTTTGGGTT	TTTTGTTGTT	GTTGTTTATT	TGTTATTTTA	AAGGTAAATT	420
GCACTTTTAA	AAAAATAATT	GGTTGACTTA	ATATATTTGC	TTTTTTTCTC	ACCTGCACTT	480
AGAGGAAATT	TGAACAAGTT	GGAAAAAAC	AATTTTGTGTT	TCAATTCTAA	GAAACACTTG	540
CAGCTCTAGT	ATTCACTTGA	GTCTTCTGT	TTTTCTGTGA	CCGGTTATC	CTGCCTCGAG	600

## (2) INFORMATION FOR SEQ ID NO:1231:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

GAATTCGGCC	TTCATGGCCT	AGGAGGGCCA	CATCTGCCAN	AGCCTGGAGT	CTGCGAAGGC	60
CGGGACCCGG	TTCCCCGGCC	CACAGTGGGG	GTGTGCAAAC	CCGAGAGAAC	TGGGTTGCAA	120
ATTCGTGAAG	AATCAGCATC	ATGTTTGGCA	GCTGAGTATT	GGAGCCAGGA	GCCTGCCATG	180
AGGTTTTGAG	AACAGAGTGC	TGTTTTAGAG	CTGGCAGCAG	CATCTCAGCC	CAAGAGAAGG	240
TTATATTTCC	AGAGGATGTC	AGTCCCAAGG	ACCAGTAGCT	GCCATCAGTT	TGGATTCTGA	300
AAACTAACTG	GCATCAACAC	TGGGTGTAGA	AACATGCTTG	CCTTATGTAT	CAGAGGACAT	360
GCTCAGCAGA	TCCAAGAGAT	ATATTTGGCA	ACTTTTTCTA	GAAAAGGCAC	CTGCCCTCGAG	420

(2) INFORMATION FOR SEQ ID NO:1232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 602 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

GAATTCGGCC	TTCATGGCCT	ACCACCCGCG	ACAGTTTCCC	AGCAGGGCTC	ACAGCAGCGT	60
TCCGCGTCAT	GGGGATTGG	CAGCGTCTGC	TGCTTTTTGG	TGGGGTGTGG	CTCCGGGCTG	120
GTGGCGGGGC	CACTGCCCCG	CTTGGGGGAA	GCCGAGCGAT	GGTTTGTGGG	CGCCAGTTGT	180
CTGGCGCCCG	GAGTGAGACC	CTAAAACAAA	GAAGAACACA	AATCATGTCC	CGAGGACTTC	240
CAAAGCAGAA	ACCGATAGAA	GGTGTTAAAC	AAGTTATAGT	TGTGGCTTCT	GGAAAGGGTG	300
GAGTCGGAAA	ATCTACTACA	GCAGTGAATC	TTGCACTTGC	ACTAGCAGCG	AACGATTTCGT	360
CCAAGGCCAT	TGGTTTGCTA	GATGTGGATG	TGTATGGACC	TTCAGTTCCA	AAGATGATGA	420
ATCTGAAAGG	AAATCCGGAA	TTATCAGAGA	GCAACCTAAT	GAGGCCTCTC	TTGAATTATG	480
GTATTGCTTG	TATGTCTATG	GGCTTTCTGG	TTGAAGAAAG	TGAACCAGTA	GTTTGGAGAG	540
GCCTTATGGT	AATGTCGGCC	ATTGAGAAAT	TGTTGAGGCA	GGTAGATTGG	GGTCCACTCG	600
AG						602

(2) INFORMATION FOR SEQ ID NO:1233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 571 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

GAATTCGGCC	TTCATGGCCT	ACTANACCTG	CCTCGTAGTC	CAGAAAGATC	CCCACGCGCC	60
TGGGTGGGTC	CCGGAGTGGA	GCCAAGGCCC	GTTCCGAGGA	NTTGTAATAG	CTCCCCAGGA	120
AGACCAGGAT	CCAGAAGCCG	TTGCCCGCGN	ANAGCTCGCC	CTTCTCCTTC	CTGTTCAAGT	180
TCTCCCTGCA	CACCCCCAGG	GCCCAGCTGG	TGCGGTCCCC	AACCTCCACC	TCCCAGTAGT	240
GGCGGCTGAG	GTGAAGCGCT	CCTGGCCCG	CACGCAGGGG	CCGGGGTCAA	AGCGCTCTGG	300
GCTGTCCGGC	ANGGCCTGCC	GTANGTCCCC	CCGCTGCACG	CGTCCGCTCG	TCTTCAGACA	360
GGATCAGCTC	AGGGTTGGCG	GTGTCCGGGT	CCAAGGTCAC	GTCCCCCTCGA	AACCTCCGCA	420
GTGTTTNTAC	CAGTCCCGGG	ACCCTGCACA	CGGTCCTCAG	CTCCATAGGC	ACAACCTNTG	480
GGGGCTGCAG	CTTCACATCC	TGGACCCCTG	NCAGGGCGTG	CTTGATGTCC	TGCAGCAGCC	540
CCAGAGCAGG	CAGCTGGCAG	CGGCCCTCGA	G			571

## (2) INFORMATION FOR SEQ ID NO:1234:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 631 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

```
GAATTCGGCC TTCATGGCCT ACTTAATTTA TAGTCTTTT CTGTGAAAT GATCATTGAA      60
GTAGTTACTA ACAGGTAATG AAATAAAATA CCAATTTTGC TAGTGAAAAA TAGTTTTCAA      120
CTGAGAAAAG CACTTGGCAG AAGACCTACA AACATGCAGG CTAATGCTAC ACTCTATTGC      180
AGCTTCAAAT AAGTTGTTTT TGATGCCTTT TGAGAAGAAC AAATAAGAT GAAAATAATT      240
CCTTGAACAT TTATCAGCAT TGCTGTTTAG GTACCCATTA GAAAGTGATT AACATTGAT      300
ACCTACCCCT TCCAAAACAC AAAATCACTG GCAAGCATCA TCACACACTC CTAAACCAGC      360
AACATCTGAG AAGCACAAAA CACCTTCCCT TTTGTCTAAT AACCTGTTGG TTAGTTATTG      420
GAACTGCAAG GCTTACAAAC TCCTCCCTG TCCTTTATCC TTATGTAAGC TTGCACATTC      480
TCCAGGAATA GCTATTTTCA AAGGTAATTT CAAAAGAATT AATACAATGA ATTCTACTGG      540
GCAGTTTGGG GGAAAATATT GACGATATTA AAATTTAAAA AATGCCTGCC TGACACATAT      600
AAGGCCTCCC CAGTCCCTCA TACAACCTGA G
```

## (2) INFORMATION FOR SEQ ID NO:1235:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 287 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

```
GAATTCGGCC TTCGTGGCCT AAGGACAGTG TATAAAAAGG CAGCGTCACA CAGGTGGGCT      60
CTGGGGTCCT TGGTCCATTA GGAGATGGCC TTTGCCTCAG GAAGGAAGGC TTCCCAGTAC      120
TTTGCCAGCT GCTGCTGTGA GTAAAGGAGT GTCTCAAGGT ACTTGATGAC GTGGTTCTTG      180
AAGTCCTTGG ATTTCTCTTT CTCAAACCGT ATCACTTCTT TTCGGACCAC TGTGAAATC      240
CTCTCGAAGT CCCTTTCATA TTGAGTCACC CGAGAGTCCC ACTCGAG
```

## (2) INFORMATION FOR SEQ ID NO:1236:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 537 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

```
GAATTCGGCC TTCATGGCCT AGGCTGGCGG GGTAGGGGTT GGTTGGTAAG GCTTGAGCAG      60
AAGGTTCTAG ATGCATTGAG GAGATAAAGA TGCATTGGG GTTATTGCAC TTCTCCTAGA      120
AACATAAACA TTGACTTCCT TTTGTGGAAG AAAAATGTTA TGTTAGCTAT TTGACGTTTC      180
AGGAAGGGTG GCTTCAGCTT GGNATTTNGG GATGTTTGTC TACANGTGGC CAGGCTGCTT      240
TCTGGCTTGG AAGACTATTG TTTCTTGGGA ATTGTCTGTA TCAGACATCA TGGGAGCAGA      300
```

TCCAGGGCGA CATCAAAGGG AACATGATTN NCNNAGGACC AGAGGGGCTT GGATGCAGAT	360
GATCATCATC TGGGCACTGN TGGATACTGA GTAAGCCCCA GCTGCACCCC ACCTCTGCGC	420
TCTGAGCATG GGAGGCAGCC TGTGCAGCTA TAACTCAGCC TGACTTTTTC CTTCCTGCA	480
TACTCTTGAA ATACACTGGA GATGAGTAGG GCGGACTGAG CTGCACACCA GAATAAG	537

## (2) INFORMATION FOR SEQ ID NO:1237:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC TTCATGGCCT ATCTCCANAT AATTNGATC ATAGGCCGGA GTGAGTCATT	60
CCACCTGCAC CTTTCTGTAC AAATACTAAT TCAATTTTAA GTCTTAAGTC ACTTTTAA	120
TATATATGAT CTTCTGCTCT TCCCACTTCC TCCCCNNTCT ACTGCTCTCC CATTTCCT	180
TGCTGGGAGT AGCCACATGC TTTTGCCCC CCAACCCTTG TATATGGGA CAGTGGGGTC	240
AGTGCAGCTA CCCTTCTTT CCTCCTGCG GAACAGCGGA CCCAGCAAGA GCATCCACAT	300
CTCGAG	306

## (2) INFORMATION FOR SEQ ID NO:1238:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

GAATTCGCCT TCATGGCCTA ATTCATGCC CCATATTTGG CATATAGTGG AAGGAGAAAG	60
GTAGTATTTT TGCAGTATTT AATAACATTG AGCCTTGAAG CTGTTTGGA AAAGGTAAGT	120
TTCCCTTTGTG GCTTTGCTGA AAAACAAGGC ATAGATTTAC ATAGATACGT GTTTAATTCT	180
CTGCTTCACT AAAGAAAGCA AATGCCTATT AAGCCACTTC AGTTGGGATA ATCCCTGATT	240
ATTGTGAGAT TGAAATTACT TTGTCAATTT TACAAATAGT TTTTATCTTT CCATTTACAT	300
ATTTACCATG ACAACTCGAG	320

## (2) INFORMATION FOR SEQ ID NO:1239:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGCC TTCATGCCTA CAGCGATGAG TGCACGAGTG AGATCAAGAT CCAGAGGAAG	60
AGGAGATGGT CAGGAGGCTC CCGATGTGGT TGCATTGCTG GCTCCCGGTG AATCTCAGCA	120
AGAGGAACCA CCAACTGACA ATCAGGATAT TGAACCTGGA CAAGAGAGAG AAGGAACACC	180
TCCGATCGAA GAACGTAAAG TAGAAGGTGA TTGCCAGGAA ATGGATCTGG AAAAGACTCG	240

GAGTGAGCGT GGAGATGGCT CTGATGTAAA AGAGAAGACT CCACCTAATC CTAAGCATGC 300  
TAAGACTAAA GAAGCAGGAA GACTCGAG 328

## (2) INFORMATION FOR SEQ ID NO:1240:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 279 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GGGGATCCTT TTATTTTAAT CACAAAAATG CTGAAAATTT TGGGTTGCAA TTTCAATCCA 60  
 CAGTAAAGCA TGGGCATTTT TTTTTTTTTT TTAAATCAGA GTGAAC TGCC TCGCGTCTTT 120  
 CTTTTTAAGG GTTACACTGT ATGTGTTCTG TGTTTTATTT AACTGTTCCC CTCCTGAGGG 180  
 GCATTCCGCT TGTGAGCT TTTCTCCCTC TTGCTGACAG TGCTGCAGTA ATCATTCTTG 240  
 TCCATTTTAA TCCCTATGTA TTTACACGGT ATTCTCGAG 279

## (2) INFORMATION FOR SEQ ID NO:1241:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 445 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCGGCC TTCATGGCCT ACGGAAAAGG AAACCTTGGT GGGATTGCTG TGGATGACAT 60  
 TAGTATTAAT AACCACATTT CACAAGAAGA TTGTGCAAAA CCAGCAGACC TGGATAAAAA 120  
 GAACCCAGAA ATTAAATTTG ATGAAACAGG GAGCACGCCA GGATACGAAG GTGAAGGAGA 180  
 AGGTGACAAG AACATCTCCA GGAAGCCAGG CAATGTGTTG AAGACCTTAG ACCCATCCT 240  
 CATCACCATC ATAGCCATGA GTGCCCTGGG GGTCCCTCCTG GGGGCTGTCT GTGGGTCGT 300  
 GCTGTACTGT GCCTGTTGGC ATAATGGGAT GTCAGAAAGA AACTTGTCTG CCCTGGAGAA 360  
 CTATAACTTT GAACTTGTGG ATGGTGTGAA GTTGAAAAAA GACAAACTGA ATACACAGAG 420  
 TACTTATTCG GAGAGCATTG TCGAG 445

## (2) INFORMATION FOR SEQ ID NO:1242:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 329 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCGGCC TTCATGGCCT AATCATGCCT CCTGCTTTTG TCACCTAATA CGTGACAGAC 60  
 TTCTTGCCAT ATGTGGAAAT AGATAACTCT TTCACTATTC TTAATAATGG ATATTAGAT 120  
 GGCTTCCATT TGTCCCTGTT ATTGTTGTAA CATATATTCT TGCATACATT TCCTTTCATA 180  
 CTTACTCAAT TATTAGCTGA ACTTTGGAGT AAAATCACTA AGTAAATACG TTTTAGGCTT 240  
 TTGCTATGTG TTACAAGATT TCCTGTCAGC AATTAAAGAT ACTTTTATTG CTCCTCACAG 300

CCTTGCCAGA ACTCATTGGG ACACTCGAG

329

## (2) INFORMATION FOR SEQ ID NO:1243:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

```

GAATTCGGCC TTCATGGCCT AAAAATAGTA AATTCACGAG TTAGACGAGG      60
GAATTTAATT CCTATTTTGT CCATGTTGGT GATGTACTGT ACTTCCCTTC CTTTCTCTG      120
CATCCCCCAT CACCTCATAG AAGACTCTTT GTTGATCATT GTATGTTAAT AATGTATAAA      180
ATGGCTATCT TGTAAAGCGTG CTGTCCTGGT ACTAGTGTAG CGACTTTTTT TCTCCTCTTT      240
CTTCTAGTAC ATATTGATAG GTATAACATA ATTAAGGTTT AAAAAAATT AGACATAGTT      300
ATTCAGATTT AGGACCAGTA AGGATAGAAC TTTCTCTTAT TTATGAAAAA AAATGCTAAT      360
AATTTTGGGG CAGTTTTTTC CTTTAATTAT TTTTTCATAT TTCAAGTTTA ATTTTATTTT      420
AGCTGATCTC GAG                                     433

```

## (2) INFORMATION FOR SEQ ID NO:1244:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

```

GAATTCGGCC TTCATGGCCT ACATGACTGA GTATATTACC TCTGTTTGAG AGAGAACCAT      60
TTTCTTCAGA AATTCATATC CTACCGTTCT GCTGTTTTTC ATGATAATTG TTTTCTCCT      120
AACATTATAT TTCTGTCTTT TAGATTTTAG TATTTACCT TTTAGAATAC ATTTGGGATG      180
ATGAAGTTGT TTTTCTTAT TCTCCTACCC CCTTTCCTTC ATCTCAGACA TTATTCCCA      240
GCTTCTTTG TTTTCTTAT TTATTATGAA AAATGTCAA TGTGCAGAAA AATGGAAGA      300
ACAGTACAAC ACACCCCAA TCTCGAG                                     327

```

## (2) INFORMATION FOR SEQ ID NO:1245:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

```

GAATTCGGCC TTCATGGCCT ACTGAGAATC TTCACCATTA AACTTAGGAG TGTCTACAA      60
AATAGTGCCT AGAACAGCTA TTGATACTCA AGAGGGCTGT TTAAGTAGCT AGAAAAGTCT      120
AACCTAAAAAT CCCATTGTG ATTAGATTAT GCACTGATGA AAAAAATGTTT AATGCCGTTA      180
AAAAGAATCT ATTACATTAT ATTCTTTCAG GCCATGGTAA AGTTACAAAT TTGAACCTAA      240
TAGGCTGTGT GTGTATTTGT ATGTGTGTAT TTTTCTTCT TTTATGGCA GTCTCAATAA      300

```

TTGTTAAGCC ACACACTGCA CAGTATACAC ACACACTGCA CACCACACAC ACACCACAGA 360  
 NTGCACACCA CACACAGCAC AACCACCCAC ACTCGAG 397

(2) INFORMATION FOR SEQ ID NO:1246:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 440 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

GAATTCGGCC TTCATGGCCT AGTGGGCAGA TCACCTGAAG TCAGGAGTTT GAGAACAACC 60  
 TGGCCAAACAT GGTGAAACCC TGTCTCTACA AAAAATAAAA AAATTAGCCA GGGGTGAGGG 120  
 CAGGTGCCTG TAGTCTTAGC TACTTAGGAG GCTGAGGCGG GAGAATCACT GGAACCCACG 180  
 GGGCGGAGGT TGCAGTGAGC CGAGATCACA CCAGTGCACT CCACCCTGGG CGATAGAATG 240  
 GGACTTTTAA AAAAAAAAAA AAACGCCTCA CACGGTTTTA GGTGCTATTA ATACAGTAAG 300  
 AAACAAATAA ACAAAGCTCA TTGCCCTTGA TGGACTTTAA AAAATGATCC AAGTATATGC 360  
 TGTCTGTAAG AGATACACCC TAGACTCAA GACACAAATA AGCAAATCAA AGGATGAAAA 420  
 AGATACACTA TATGCTCGAG 440

(2) INFORMATION FOR SEQ ID NO:1247:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 466 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

GAATTCGCCT TTATGGCCT AGCCNAACAA AATGGCGGCG GCAGCGGTGT CGTTTTGTTT 60  
 CCGGGGNTCC TGCGGCGGTG GCAGTGGTAG CGCCCTTTGA GCTGTGGGGA GGTTCACGA 120  
 GCAGCTACAG TGACGACTAA GACTCCAGTG CATTCTATC GTAACCGGGC GCGGGGAGC 180  
 GCAGATCGGC GCCCAGCAAT CACAGAAGCC GACAAGGCGT TCAAGCGAAA ACATGACCCG 240  
 TGAGCCCATG AGTGAAAGCA AGTTGAATAC ATTGGTGCAG AAGCTTCATG ACTTCCTTGC 300  
 ACACTCATCA GAAGAATTTG AAGAAACAAG TTTTCCTCCA CGACTTGCAA TGAATCAAAA 360  
 CACAGGTAAA TTGAAAAAGA ATGTGCTATA CCTTCTAGTC TTTTCTCTAT TTTTCTTTAA 420  
 CACTTATGGA GGTAACCATT TATTTATTC AGAGAGCACA CTCGAG 466

(2) INFORMATION FOR SEQ ID NO:1248:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 194 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

TTTTGTTTTG TTTTGTGTTG TTTTGGTAG AGTTGGAGTC TTGCTGTGTT GCCCAAGCTG 60  
 ATCTCCAATT CCTGACCTCA AACAGGTCTC TCACCTTGGC CTCCCAAAGT GCTGGGAATT 120



CAGGGGTGAA CCACCTCACC CAGCCAAGAT CACATTTTGA ATCTAATTTT TTTTTTTTGA 180  
AACAGTGTCT CGAG 194

(2) INFORMATION FOR SEQ ID NO:1249:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 523 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC TTCATGGCCT ACCTGTGCAA GAACATGAAA CATCTGTGGT TCTTCCTTCT 60  
 CCTGGTGGCA GCTC^CAGAT GGGTCCTGTC CCAGGTGCAG CTGCAGGAGT CGGGCCCAGG 120  
 ACTGGTGAAG CCTTCGGAGA CCTGTCCCT CACTTGCACT GTCTCTGGTG GCTCCATCAG 180  
 TGATCACTTC TGGACCTGGA TCCGGCAGCC CCCAGGAGG ACGCTGGAGT CGCTTGGCTA 240  
 TATTCATTAC AGTGGGATCA CCAACTACAA CCCCTCCCTC AAGAGTCGGG TCACCTTTTC 300  
 AGTAGACACG TCCAAGAACC AGCTCTCCCT GAAGCTGAAG ACTGTGACCG CTGCGGACAC 360  
 GGCCGTGTAT TACTGTGCGA GATTAGTGG TTATTATACT AACCTTCCT ACTACTACTA 420  
 CATGGACGTC TGGGGCAAAG GGACCACGGT CACCGTCTCC TCAGCCTCCA CCAAGGGCCC 480  
 ATCGGTCTTC CCCCTGGCAC CCTCCTCAA GAGCACTCTC GAG 523

(2) INFORMATION FOR SEQ ID NO:1250:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 194 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

GCCAGAGGGA TGACCGGTGG CTGCTGGTGG CACTCCTGGT GCCAACGTGT GTCTTTTGG 60  
 TGGTCCTGCT TGCACTGGGC ATCGTGTACT GCACCCGCTG TGGCCCCCAT GCACCCAACA 120  
 AGCGCATCAC TGA CTGCTAT CGCTGGGTCA TCCATGCTGG GAGCAAGAGC CCAACAGAAC 180  
 CCATACCCCT CGAG 194

(2) INFORMATION FOR SEQ ID NO:1251:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 503 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC TTCATGGCCT AAGCCCACTG GCATCAGACA TGCTTTGCTG TAGTGTACAC 60  
 TTCNTTTTTC NTTTTCTTTT TTTTTTTTIN CACACAGAGC CNGGNTCCGT CCCCCAGGCC 120  
 TGACTGCAGC GGNANAATCC CCCCCACNG CCACNTCCGC CACCCAGGCC CAAGCGGTTT 180  
 CCTAACGGCT AATGATGTTG AACATCTCTT CATGGGGTTA CATGCCATCT TTATATCCTC 240  
 TTCAGTGAAA TGTTCTTAA CATCTTTTGC TGTTTTCTAA TTGGATTACT TGGGGTTTTT 300

TAATACTGAG TTTGGAGTTA TTTATATATT CTAGACAGTA GTCTTTATTG GATATGTGGT	360
TCAAAAATAT TTTCTCCAG TCTGTAGTTT GCCTTTTCAG CCTTTTAACA TGGTCTTTCAG	420
CAGACCAAAA TGTTTGTAGTT CTTATGAAGT CCAACTTACC AATTTTTCCT TTTCTAGATC	480
ATACTTTTGG TGTCAAGTCT CAG	503

## (2) INFORMATION FOR SEQ ID NO:1252:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 589 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGGC TTCATGGCCT AATTGAATTC ATGATTGTC TCTCTGCTTG CCTGTTGTTG	60
GTGTATAGGA ATGCTAGCAA TCTTTGCACA TTCATTTTAT ATCCTGGGTT TCAGTATTTT	120
AAAAACTTAC TTCAGGTGAT TCTATGTGTG CAACCATGAT TGAGATACAC TGTATAGAA	180
TCTAGGATGT GATAAACTAG AAGAACATAA CTAAAGTTTT GCATTTTTCG GGTGTCTCAG	240
TTTCCTCATT TATAGATGGA GTTGGTATGT GTACCAAGTT CATAGGCTTG TTCTGAGTAA	300
ATTAGTGCAT GTAAAGTGCT CCACAGAATG TTAGCTGTTG TGATGCTTTA CTTTCCATTG	360
CACTTCCTGA CTCCTAGCCT TTCTTTTCTT TGGCTCTTTT TATGCTCATG TCAGATGCCT	420
CTATTGTTTC TTTCCCCCA GAATATCCTC CACTTTATCT TGCTCTGCTC AACATCTTTA	480
AAGTATAGAA TCAACAGACT GCCATGCCAC CCAGTCTGTC TGACAATTGA GGCAAATTCC	540
CTAAGTCCTC TTGTTCTCCT TCTGAGATT CCACCTGCTC TAACCTCGAG	589

## (2) INFORMATION FOR SEQ ID NO:1253:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 702 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GAATTCGGCC TTCATGGCCT ACATTTATCG AGTCTTTAAT TAATGCCCTG GGTAACATA	60
AGGTGGAAC TGTAATTGTC ACCATATTGA TGATGAGAAA CTTGAGAAAG GATAAGTGAC	120
TTGTCTAAAA TCACACAGTA AAACCTCAAA TCAAACCCAG GCCCTCTGGC TCCAGACTCT	180
AAATTATACT CTGAATGATA CTCACTGATT GTCCGAGGAC ACAAAGACTG TCGAGGCACT	240
ATCTGCTGGG TGTCTGCAGA ACCTTACTGT TCTAAAGCAA AACATTTTAC CCCTGGACAA	300
GAGCAGCAA GGTGGCGTTC GGCCCTCCTT GGCTCTCATT TGACTGTTCA AAGCCAGGTG	360
CTTTTCTTTC TTGGGTCAGA ACGTATTTTC AGCAGCATT TGAAGCACCC CTGGCGTGCA	420
CTGCACAGGG AAACCAGGAC CACATTGGTG TGCTGTGTCC TCCTTACCAA CTGGCTCTTG	480
GAGAAGGTGA GACAGAAGTA GCTGAGACTC CATTCTGAG ATCTTCACCT AACAACTCCT	540
GCAGCTTGTG CAGAGCCTTA CTAGAAATAC TGAAGGCAGA AGTCCCTGGA AAATAGGGCC	600
CATAACTAAT TAGTAATTTG TTTTGTAGTA ATTTCTTACC GTTATTTGAG CACATTCTGC	660
AGTCCAGGCA TTTTGCTAAA CTCTTACATG GCAGGACTCG AG	702

## (2) INFORMATION FOR SEQ ID NO:1254:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 554 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

GAATTCGGCC	TTCATGGCCT	AAGCAAGTAA	ACACTGTATA	TCTGTAATTG	GAAAGTTGGT	60
GGGAAGATTA	CTTTTCCATT	CTTGATGTGG	CAGCCTTAAG	TGCCATCACA	GCTTGTTCTG	120
TGGTTTGCCT	TTTTTTTTC	AGTGACCTCA	GCTCACTGCA	ACCTCCACCT	CCCTGGTTCA	180
AGCAATTCCC	CTTCTTCAGC	CTCCAAGTA	GCTGGGATTT	CTGGTGCATG	CTACCAGGCC	240
TGGCTAATTT	TTTTTTGTAT	TTTGTAGTATA	GACAGGGTTT	CATCATGTTG	GCCAGACTGG	300
CCTCAAATC	CTGACCTCAG	GCAATCTGCC	CACCTCAGCC	TCCCAAAGTG	CTGGGATTAT	360
AGGTGTGAGC	CACTGCGCCC	AGCGACTTT	CAAATTTTTT	AACCACAGCC	CAGTGTAACA	420
CTGTGTGTAT	GTGTGTGAGT	GTGCTTGAT	GTGTGTTGA	AATAAAATTT	TTCATGTGCT	480
TAAACATTCT	GATTTTTTTT	TTATCAGAAC	CACTAATGAG	ATGAGACCAT	AGTTTGTAA	540
ACCTCATGCT	CGAG					554

(2) INFORMATION FOR SEQ ID NO:1255:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCGGCC	TTCATGGCCT	AGCTCCGGCA	CATGGCAGGC	ACTCAGGGAA	AGTATGTAGC	60
CTTATGAAC	GACTGATCTG	AGGGAGGCAC	TTCTGTAAGC	CATAGTATTG	GTCAGTGGCA	120
TGAGGCCACC	TACTGGATCC	CTGCCATCCA	GCCCTGGGAG	TAGCATGAAG	CAGCATGGCA	180
CTGGCCTTCT	GGAAGCTTGG	AGAGGAGTCT	TACCCAAGCT	TTGCTCCTAG	ACATTAACT	240
TCCAGCTGG	GCACTAACAT	GTGGCTGCAG	AACCTGCCCT	TGCTCAGTCT	GTCCCTGGT	300
CAGCTGCTGG	GAGAGCCTGC	CTCGAG				326

(2) INFORMATION FOR SEQ ID NO:1256:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCGGCC	TTCATGGCCT	ACATTAAGGC	AGCTTTGTAA	GTAAGTACAA	AATATATTTC	60
AACCTACACA	ATTTTATTAT	GTTTCCCTCT	CTTTTAGAAG	TACACGACT	CTAAAATGAA	120
TGAAAGTCTG	ATTACTTGCC	TTAGGTTGGG	GGCTTTATCC	AAGCTCTACT	AAGTGAAGCT	180
AAAATAAAGG	ACATTGTTGT	ATATTGTATT	TTAATGTATA	CATTATTACC	TCCTCAGCAA	240
AGTGAAACAT	AGCTAAACT	TGAGTATATA	TTTCCTTCAT	TTCTCTTCTT	AGTTCCTTTT	300
TGGCATCTCA	TGCTGAACAA	ATCCAAAATA	GATTTATTAA	TGCCTTCCCC	CAACACAAAC	360
AAAACCAGAA	GAGTCTTTCG	CTTCTAGACC	TGCCTCGAG			399

(2) INFORMATION FOR SEQ ID NO:1257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

```
GAATTCGGCC TTCATGGCCT ACTGAGTACA GGTTTGGGAT CTACATACCC AGATCAACAG      60
CATGTGGCAT CACCTGGCCC AGGTGAGCAT GACCAGGTAT ACCCAGATGC AGCTCAGCAT      120
GGCCATGCTT TCTCTCTCTT TGACAGTCAT GATTCAATGT ATCCTGGTTA TCGTGGCCCA      180
GGGTATCTAA GTGCTGATCA GCATGGCCAG GAAGGTTTGG ATCCAAATAG AACACGAGCC      240
TCGGACCGAC GTGGAATTCC TGCCGAGAAG GCCCCAGGCC AAGATGTCAC TCTTTTCAGG      300
AGTCCAGACT CCGTCGACCG AGTCTTATCA GAAGGAGCG AAGTCTCGAG      350
```

(2) INFORMATION FOR SEQ ID NO:1258:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 335 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

```
GAATTCGGCC TTCATGGCCT AATGAATCG AGCTGGTTAA GTTCACTAG GAGGCGCNAA      60
AAAGGAGCCG TTTTGTACTT AACATTTTAA TTCTAGTAGA GATAAGAAGA GCTTGTGTGG      120
GCTTACAGTC CTTACCTTGA CTGTCCTTCA CAGTGAGTA GCATACCAGT TCTTCAAATG      180
TCCTATACTT TGGAAAGCAG ACCCGACTCT GGAGCACTCG CCTTAATTAG ATTCTGAATT      240
TCCTTGAATT TTGGATGGTC CTTATCAGCT ACCAGCTGAA GCAGAACAGC CTCACTCCTG      300
GTCACATGA TCCCGGTTTC AGCGAGACGC TCGAG      335
```

(2) INFORMATION FOR SEQ ID NO:1259:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 621 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

```
TCCAGTTGAA TTTAATAGAA TTCGGCCTTC ATGGCCTAGC CGACCGTTGA CTATTCTCTA      60
CAAACCACAA AGACATTGGA ACACATATACC TATTATTCGG CGCATGAGCT GGAGTCCTAG      120
GCACAGCTCT AAGCCTCCTT ATTCGAGCCG AGCTGGGCCA GCCAGGCAAC CTTCTAGGTA      180
ACGACCACAT CTACAAGCTT ATCGTCACAG CCCATGCATT TGTAAATAATC TTCTTCATAG      240
TAATACCCAT CATAATCGGA GGCTTTGGCA ACTGACTAGT TCCCCTAATA ATCGGTGCCC      300
CCGATATGGC GTTTCCTCCG TGCTGCTAG TTATATTCT CCAACATAGA TTAATACAT      360
ACATGACTAT TAAAATCTCA GGGTTCTTCT ATGTGTCCCC TAAAAGCATG ATGTATGCCA      420
GTGGTCATCT GTCCACCACC ATTTGGGGAC CACGGCATTG AGGTAAAGTG GGTCTCGGAT      480
GACCTCCTTC AGCTTAACAG CAGGAGTTGA GATGGAGCCC TTGCAATTC CCCACTGAAT      540
TCCAGAAGCA AGGAGAAAGA CTGAAGTGAC AAGTACCGCA AGACAGACTT CAGGAACAAT      600
TCGTTTAAGC TGCAGCTCGA G      621
```

(2) INFORMATION FOR SEQ ID NO:1260:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 322 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

```
GTTTTGTGAT TCTCCAGGAC AGATGATGAA AACAGTGTA GATAGTGTC AAAATTCAC      60
TG TAGCCATA AAATCTCGAC CTGTTTCAAG AGTTACCAAT GGAAC TTCCA ATAAAAAAG      120
TATTCATGAA CAAGACACTA ATGTAAATAA CAGTG TACTA AAGAAAGTCA GTGGCAAAGG      180
ATGTAGTGAG CCA GTACCAC AGGCAATTTT GAAGAAAAGA GGAAC TAGCA ATGGATGTAC      240
TGCAGCTCAG CAGAGGACAA AGAGTACCCC ATCTAATCTT ACTAAACTC AAGGATCCCA      300
AGGAGAGTCA CCAATACTCG AG                                         322
```

(2) INFORMATION FOR SEQ ID NO:1261:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

```
GCCCTCATGA CTCGGATCCA ACCTGCCTCG CAGGGAGTCG AGCTCTCCGG CCTCTCAGCC      60
GCCATCAGCC ACTTCTGAA CTGCTTCTCG AGCTCCTACC CAAACCCCGT GGCCACCTG      120
CCCGCCGACG AGCTGGTCTC CAAGAAGCGG AATAAGAGGA GGAAAAACCG GCGCCCGGGG      180
GCTGCAGATA ACACAGCCTG GGCTGTCATG ACCCCCCAGG AGCTCTGGAA GAACATCTGC      240
CAGGAGGCCA AGAACTACTT TGACTTCGAC CTCGAG                                         276
```

(2) INFORMATION FOR SEQ ID NO:1262:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 292 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

```
GAATTCGGCC TTCATGGCCT ACAAAGAAAG CAAGCCACAA ACAATAATGA AGCAAAAAAT      60
GGAATCTAAG AATCTTTTGT TATGGAATAT TACTTCTATC AGAAGATGAT CAAGATGTTT      120
CAGTCCAGTG CACATCAGCA TTGCTGACAT TTTATGGATT CTAAACTTGT GTTGTTTCTT      180
TTTTAAATCA ACTTTTAA AAAATAAAGT GTAAATTAAC CGACTAGAGT ACTTGGAAAA      240
TGTGATCAGT ACAAGTGAAC TTAGGTTGTT GCCAACAGGG TCCGTACTCG AG                                         292
```

(2) INFORMATION FOR SEQ ID NO:1263:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 439 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

```

GCGATTGAAT TCTAGACCTG CCTTGATGCC AACTAAGGAA ATTTGTTTAG CATTGAATCT      60
CTGAAGGCTC TATGAAAGGA ATAGCATGAT GTGCTGTTAG AATCAGATGT TACTGCTAAA      120
ATTTCATGTT TGTGATGTAA ATTGTGTAGA AAACCATTA AATCATCAAA ATAATAAACT      180
ATTTTATTA GAGAATGTAT ACTTTTAGAA AGCTGTCTCC TTATTTAAAT AAAATAGTGT      240
TTGTCTGTAG TTCAGTGTG GGGCAATCTT GGGGGGGATT CTCTCTAAT CTTTCAGAAA      300
CTTTGTCTGC GAACACTCTT TAATGGACCA GATCAGGATT TGAGCGGAAG AACGAATGTA      360
ACTTTAAGGC AGGAAAGACA AATTTTATTC TTCATAAAGT GATGAGCATA TAATAATTCC      420
AGGCAAATGG CAACTCGAG                                     439

```

(2) INFORMATION FOR SEQ ID NO:1264:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 486 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

```

GAATTCGGCC TTCATGGCCT AGGGGAGGCC GCGNGGGGA AAATGGCGGA CGGGAAGGCG      60
GGAGACGAGA AGCCTGAAAA GTCGCAGCGA GCTGGAGCCG CCGGAGGTGA ACACAACCCC      120
AGCGTCGTGG GCAGCGTGGG ATGCTCCGGG CTTTCTTTG AGCTCCCAAG GTGGGGGGAG      180
TGGGGTGGGG CGAAAATGGG CGGATCTGGA CCTCACCCGG ACAGGTGTTG GGCCAGACC      240
TGCCTCCGGG CNGCCCCGA TGCGGCCCTC CTGGGCTCCG GGCCTACATC GCCTCCTTGC      300
CTGGGGAGAG CCGGCCACTG TTCGTACCT CCTGGCCCCA GCGGAGGCCG TGATTCCGAG      360
GAGAAGGGAG ATGGGCGCCA GAAAGGGAGA CCGAACTCGG GGTGGGACCA GGAGCGGCGG      420
TGCAAGGAGC GCTACCGCCA CACCGGAGAC GCACATCACA CAAAACACAC ACACCGGATT      480
CTCGAG                                     486

```

(2) INFORMATION FOR SEQ ID NO:1265:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

```

GAATTCGGCC AAAGAGGCCT AATTATTGT TGGATCAATC AAAATTTTCA TCACTTAAAA      60
GAACCATGTC TATTAAAGAA TCTAGCTCAC TGGAGTGCAT TGCCATTCCA AAAAAGAAGA      120
TGAATTTAAA AGATAAAGC CATGAAGGTG TTGCTTGTGT CCAGAAAGAA AAATCAGTAG      180
TTAAACCTG GTTCTGTGAA TGCAATCAGC GATTCCCAAG TGAAGATGCA GTAGAAAAGC      240
ATGTTTCTC AGCAAAACA ATGGGTTATA AATGTGTGGT CTGTGAAAG GTATGTGATG      300
ATTCAGGGGT TCTCGAG                                     317

```

(2) INFORMATION FOR SEQ ID NO:1266:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 479 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

```
GAATTCGGCC AAAGAGGCCT AATCTTTTCC TTTCTGTAA GTTAGAAGAA ATAACCTCTT      60
CAGTTAAACC TTCAGTGAAG GTTCTTTTAG TTTCTGTTC TGCTTCTAA AAACATAGAC      120
TCTGTCTTTT AGAGCAACTT ATGACTCTCA TCTCTGCTGC ACGAGAATAT GAGATAGAGT      180
TCATCTATGC GATCTCACCT GGATTGGATA TCACITTTTC TAACCCCAAG GAAGTATCCA      240
CATTGAAACG TAAATTGGAC CAGGTAATC CTTACTTTT ATTCAITTTT CCTGACTATG      300
TACTTGAAAC TAGAAGTTTA CTCAGTTGCT TTTACGATGT TAAAAGGAAA TCAAAITCCT      360
ATTTCTTTGT TTTCTTTT TTTTGTGTTG TTTTGTTTT TGAGACAGAG TCTTGCTCTG      420
CACTCCAGCC TTGGGCAACA GAGCAAGGCT CTCAAAATAA AAAAGCAGCG ACACTCGAG      479
```

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

```
GAATTCGGCC AAAGAGGCCT AGGGTTTATG CCAACAAAAG GAGAGGGAGC CATAGGTTCT      60
CTAGATAACA CTCCTGAGGA AAGAAGAGCA CTTGCCAAAA AATCACAAGA TTTCTGTTGT      120
GAAGGATGTG GCTCTGCCAT GAAGGATGTC CTGTTGCCTT TAAAATCTGG AAGCGATTCA      180
AGCCAAGCTG ACCAAGAAGC CANAGAACTG GCTAGGCAAA TAAGCTTTAA GGCAGAAGTC      240
AATTCATCTG GAAACACTAT CTCTGAGTCA GACTTAAACC ACTCTTTTTC ACTAAGTAT      300
TTACAAGATG ATATACCTAC AACATTCCAG GGTGCTACGG CCAGTACATC GTACGGACTC      360
CAGAATTCCT CAGCAGCATC CTTTCATCAA CCTACCCAAC CTGTAGCTAA GAATACCTCC      420
ATGAGCCCTC GACAGCGCCG GGCCCAAGCAG CAGAGTCAGA GAAGGTTGTC TACTTCACCA      480
GATGTAATCC AGGGCCACCA GCCAAGAGAC AACCACACTG ATCATGGTGG GTCAGCTGTA      540
CTGATTGTCA TCCTGACTTT GGCAATTGGCA GCTCTTATAT TCCGACGAAT ATATCTGGCA      600
AACGAATACC TCGAG                                     615
```

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

```
GAATTCGGCC AAAGAGGCCT ACAGAACTTT TGTCAAATGG AGTGTACCC ACAGTCAGAA      60
TCTAGCCACC AAAATGGGAA GGGAGTGNAG CTGCCCTGTC CACAGGCTTC TCTATGGGAA      120
ANGCTGCTGT TCTGTAAAC ATGNTGGGGC NGGCTGTGGG GANGAAGGCA TTTTCTGGAC      180
CACATGNACG AATTGGAATT GGGGGACGGT CCTACCCAG TGAGGAAGCT GAAAGAAATG      240
GGCCTGATTG GGTGCAGGAC ANCCCTGAA GACCGTGAGG CCCCTGGCCT CTGCCGCAGA      300
```

TGGGAGCCTC AGCAGCANGG TTTAGGGCAG CACCCAGGGC ATCCTTGCCA CGTGAGGCTG	360
CCGTTGGTGC CTGGGCATCA GTAGCTCAGG CTGGAATAAT TGGAAAGGAA AAGGCAGGAG	420
GANCCCCCTGA GGCCAGGCCA TTGGGCTGGG GAGCTGTTAA GCTGAGGTGG CCCTAGGGCC	480
TGCCGGGGCT GGGGGTGGCA AGCCAACTC TCGAG	515

## (2) INFORMATION FOR SEQ ID NO:1269:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 229 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC AAAGAGGCCT AGTGCAACTG ATCTGTCCAG TTGTGTATG AAATGGATTT	60
GATAAAGTTT TTGCTAGTTA TTTACTACAT TTTGGGATTA ATAAGTGATT TATATGCATA	120
TTTTTCTGTA AATCTACAGT TTTTGTACA AGATATTCTA CAAGTTATGA AGCTAAGGGA	180
AGAAAATGCC AAAGATACCT CTAGTTATGT TGAACACAGC CAGCTCGAG	229

## (2) INFORMATION FOR SEQ ID NO:1270:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 128 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC AAAGAGGCCT AGTATGCCCT TAAATCTGGT TATTAGGTAA TTCTTTTCCG	60
AGTAGGAGCC CAGATCAACT CACAGTGTTT CTGAGTCCTG GGAGATTGAA TTCTAGACCC	120
GCCTCGAG	128

## (2) INFORMATION FOR SEQ ID NO:1271:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 412 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC AAAGAGGCCT ATTTAGCACA AATTTCTTTT TGCTTGCCTT TTCAGATTTT	60
AAAACATTA GAGAAAAACA TACTTGATTG CTAATAATTG TCAAACATAA ATAGTAGACA	120
CAATTTAGTA ATAATCATAT TAATAATCAT AATCATTAAT ACTCATAATA ATCANACAGA	180
GGACGCCCTA AAATGTACAC TGATTAAATT TTATTTTTTT CCCATGCATA GCTAGCCTGT	240
TTGTACAACT TTACTTTTGC TGCTGCATGT AACCAGATGA TTTTTTAATC AGATTACTGC	300
CTTTCTGATT TATTTAGAAT TTTTCTTCTT TTTTCTTTT AAGAGACGGG ATCTTATTCT	360
GTCGCTCAGG CTGGGGTGCA GTGATGTGAT CCTAGCTTAC TGTATTCTCG AG	412

## (2) INFORMATION FOR SEQ ID NO:1272:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

```

GAATTCGGCC AAAGAGGCCT AGTTTAAAG GACAGGTTA AATAGGCTTA CTTTTTCTT      60
TTAAGTTCAG ATACCTAAGC CTTATGTCCC TAGCCGAGT TTCAGATAT TTGCAGCTAA      120
TTAATTCTTA GGAAATCTAA TCTGAATTGA ATTAATTTTC CCTTTTAGGG CACACGAAGC      180
AACTTTTAGG TAAGAAAAAA AATGAAAAA GCTTTTGTTG CACATAATTC TTGCAACTAA      240
TGAAAAGTAA TATTGCTGTT CCCTTCAAAT AATGCAATAA CAAAACACCA AATGAGAGCA      300
TTGCATTGTA TTGTTATATT TGCTGTTTAA ATAATTTAGC TGCAAAAATC TGAGGGCTGC      360
TTTAGCTGTA ATTATTATT CATTAAATGAC ATGCTAATTG CACAATACCT TTGAATATT      420
AACAAAATGC AAAAACCAGG CTCTGAAGTT ATGTTTTTAG TGCAAGGGGG ACACCTCGAG      480

```

## (2) INFORMATION FOR SEQ ID NO:1273:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

```

GAATTCGGCC AAAGAGGCCT AAGACCAGCC TGGGTGACAG AGCGAGACTC CGTCTCAAAA      60
AAAAAATTGA ATGAAGCAGA AATTATTCTT TTAAGCCCA TTAGCTGTT ACACACATAG      120
TTATAGCATA TTCTCTCTTG AGATAACTTG CTTTAAATTG GAAACTAAT TCATTAAATA      180
TCCAACTCT ATATCATTTT TGAATAAGT GATTTTAGCA ATTTTGATA CTTATTCTAA      240
CATGATGCAT ATATTGAGTA TGTACTTTTC TTAAATGCA GGCAATACTC GAG          293

```

## (2) INFORMATION FOR SEQ ID NO:1274:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

```

GAATTCGGCC AAAGAGGCCT ACCGCTTTT TTTTTTTT TGATAAAGAG AAGCCACCAC      60
CAGGAGGAGG CTGAAAGCT TGAATTTAAT TACTCCTCCA TCTCCTCATT ATTCCACCCA      120
ACTCCCTACT TCCCCTCTC ATTTACAGC CTCCACCAGC TCTCCCTCA GGCCTCCTAG      180
ACATCGCGCT CGAG          194

```

## (2) INFORMATION FOR SEQ ID NO:1275:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 164 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

```
GAATTCGGCC AAAGAGGCCT AAGAAGAAGA AAGAAAAATT GGAGAGAAAA AAGGAGTCTT    60
TAAAAGTTAA AAAGGGTAAA AATTCAATTG ATGCAAGTGA AGAGAAGCCA GTTATGAGGA    120
AAAAAAGAGG AAGAGAAGAT GAATCATACA ATATTTTCAGA GGTC                      164
```

(2) INFORMATION FOR SEQ ID NO:1276:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 465 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

```
GAATTCGGCC AAAGAGGCCT ATTTGGATGG CAACGAGCTC ACCCTGGCTG ACTGCAACCT    60
GTTGCCAAAG TTACACATAG TACAGGTGGT GTGTAAGAAG TACCGGGGAT TCACCATCCC    120
CGAGGCCCTTC CGGGGAGTGC ATCGGTACTT GAGCAATGCC TACGCCCGGG AAGAATTCCG    180
TTCCACCTGT CCAGATGATG AGGAGATCGA GCTCGCCTAT GAGCAAGTGG CAAAGGCCCT    240
CAAATAAGCC CCTCCTGGGA CTCCTCAAC CCCCTCCATT TTCTCCACAA AGGCCCTGGT    300
GGTTTCACA TTGCTACCCA ATGGACACAC TCCAAAATGG CCAGTGGGCA GGAATCCTG    360
GAGCACTTGT TCCGGGATGG TGTGGTGGAA GAGGGGATGA GGGAAAGAAA TGGGGGGCCT    420
GGGTCAGATT TTTATTGTGG GGTGGGATGA GTAGGACAAC TCGAG                      465
```

(2) INFORMATION FOR SEQ ID NO:1277:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 302 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

```
GAATTCGGCC AAAGAGGCCT AACTGTGGTT CTTACATCCT AACAAAAGCT GCCCTCCCCG    60
CACATTCTTT TGTATGTTCC TTAAGCTTAA AGATGAATAG ATGCTTAAAG TATGCAACTA    120
TGGCATTGG AGTGCAAGAC AACTTGAAAA AGAGTGTGAA AACATTGTCA GATATAAAGT    180
TACTTCAATT CTTTGGAGTC TGTTTCCTGT CATGCTTAGA TGTTTGAAT CTTAAAGTTA    240
CAGAGGAACT GTTCTCTGGT AACAGACAT GTCTGAGTTT GTGGACTGCA CGCGATCTCG    300
AG                                                                302
```

(2) INFORMATION FOR SEQ ID NO:1278:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 401 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

GAATTCGGCC	AAAGAGGCCT	ATAGGCCTCT	TTGGCCGGGT	TAGCCTAAAG	GAGAAAAAAG	60
CAAGGCTCAA	GAGAAATTAG	ACAGCAGCTT	TCAAATATTT	TTAGAGAAGT	AGGTTAATTA	120
TGGTAGTCAT	TCAACAAGGT	AGAAATCATA	CCAAGCATGA	AGTCACAGGA	ATGTCCCAGG	180
AGTGTGCAAC	CATTGGAAC	GTCCATAGTA	AAATGGGCCA	GCTTGAGCAA	TAAAGTCTC	240
CTAGTACCAG	GAAATGCTTA	GAGGTGGGG	AAAGTGAAAA	AAAGGGGGAA	AGTTTGGTCA	300
GGTTGGGGAG	CAGTCACACT	TCTTCCTGAG	AGGTAGTAAA	TACCAGGCTC	TCCATCTGGA	360
GGAGGGGTCA	GTAAATCAG	TTTGCAAAG	AATATCTCGA	G		401

(2) INFORMATION FOR SEQ ID NO:1279:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

GAATTCGGCC	AAAGAGGCCT	ACCCACCCCT	ACTCCTCAAC	ACTTCTGGTT	TGCCCTGACT	60
TCCTACGGC	TCTGGCTTCT	TCCGAAGAG	ATATAGGAGC	CATGTAAGCA	CGCAGTGGGT	120
GAACTGCTTA	ATTTCACTAC	ATGTTGATGT	ACTTGTCTTC	CGTCCTGTAG	GTCTTTTCTA	180
TATAACTTTA	TGCCACCCTT	AAATGAATCA	TTGGGTATAC	CTGTCATGTT	GGATCCTGTA	240
ATCACAGTTT	TCCCTGCTCA	CCTTTTGTG	TAAGATCTAT	TGAGAAAGGG	AAATATGGGA	300
AGGAGAACCA	TTTGATCAGA	ATACAACCAA	TAGTCTTTAA	GCATTGTAA	AGTATGAAAC	360
TGAAATACAT	TCAAAACACT	TTACACTCGA	G			391

(2) INFORMATION FOR SEQ ID NO:1280:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

GAATTCGGCC	AAAGAGGCCT	AGGACTCCAC	ACTCCCCAGA	TCCCAGTATG	ACTACATCTT	60
GCCTCAAGTT	TCTTTCACCG	CAGTGGGCTA	CCATAAACAC	ATCACCTTGA	TTTTTAATCC	120
CACGAGGAAG	CTGCCTGAAC	AGGACATCGC	ACAAGGATCC	TACATTGCCC	TGCCATTGAC	180
GCTGCTGGTT	CTGCTGGCCG	GTTACAACCA	TGACAAGCTC	ATTCCTTTGC	TGCTGCAGTT	240
GACAAGCCGG	CTACAGGGAG	TCCGCGCGCT	CGGCCAGGCA	GCCTCTGACA	ATAGCGGGCC	300
AGAAGATGCA	AAGAGACAAC	CTCGAG				326

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

```
GAATTCGGCC AAAGAGGCCT ACAGATGCAG ACACGGTGTG CGACGAGTAT TCTGACGAGG      60
AGGTGGTGGA GGACGTGGAT GATGCCGCCT ACTCCATGGT CAGTGCCTCC CATGTGACCG      120
CCCGCACCTG GGCCGCTGTC CGTCTAGCGC TCTAACAGTC TTACACCTTG GCTTCTCTG      180
TCCCTTGAAA GAATTAATA TATCTACTGT GGACTGTTTC ATAAAACCAA CCTATGGTGT      240
TGCCGGGCAC AGAACAAAGC TGTGTTTCAC TACTGAAGGG ATGATTGGGT TTCTATATCA      300
TAATTACTTT TAGCTTCAGA ACAGACCCTT GTTCAAACAT CTCATGATCT TCGTAACCA      360
TCTCGAG                                         367
```

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 560 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

```
GAATTCGGCC AAAGAGGCCT AAGAGAAGTG TCAGCCTCAC CTGATTTTTA TTAGTAATGA      60
GGACTTGCCCT CAACTCCCTC TTTCTGGAGT GAAGCATCCG AAGGAATGCT TGAAGTACCC      120
CTGGGCTTCT CTAAACATTT AAGCAAGCTG TTTTATAGC AGCTCTTAAT AATAAGCCC      180
AAATCTCAAG CGGTGCTTGA AGGGGAGGGA AAGGGGAAA GCGGGCAACC ACTTTTCCCT      240
AGCTTTTCCA GAAGCCTGTT AAAAGCAAGG TCTCCCACA AGCAACTTCT CTGCCACATC      300
GCCACCCCGT GCCTTTTGAT CTAGCACAGA CCCTTCACCC CTCACCTCGA TGCAGCCAGT      360
AGCTTGGATC CTTGTGGGCA TGATCCATAA TCGGTTTCAA GGTAAAGATG GTGTCGAGGT      420
CTTTGGTGGG TTGAACATG TTAGAAAAGG CCATTAAATT GCCTGCAAAT TGTTAACAGA      480
AGGGTATTAA AACCACAGCT AAGTAGCTCT ATTATAATAC TTATCCAGTG ACTAAAACCA      540
ACTTAAACCA GTAACCTCGAG                                         560
```

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

```
GAATTCGGCC AAAGAGGCCT ATTTTCATCA ATAGTAAGTT TTTATTGTCT GCTAATTG      60
TAGATAAGTT GAGACATCTC ATTGTTACTT TAATTTGCAT TTTCTCCACA TTAGAAAATA      120
TTTTCAATTG TTTATTGACC ATTGCAATT CTCTTCTATA AATTGACTTT TTATATTTAT      180
TTGTCTCTAT TTCTGTATTG TGTTGATAGT CAATTTATAG GAACCTTCTG ACAGATATGC      240
ATATTCATTT TATGTGTGAG TTATTTTGT GGCACCTACT CGAG                                         284
```

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

GAATTCGGCC	AAAGAGGCCT	ACTTCGGTTG	CGGGATTCCCT	CCTCTGCCTG	GGTCATTCTT	60
TCTCSTGTCA	TCTGATACGA	GTGTTTGTG	GCACACACTG	TAATTTTATC	TTGTATAAAT	120
CCCAGGCAAT	TGAGCTGGGA	GGCTCCAGAG	CTGGAGAATG	TTTGCTGGAT	GCAGTCAAAG	180
CTGCCCTGAG	GGTTGTCTTT	GCCACATTT	GACAAATAAA	AGTTAAAGTT	ATGAACCTCA	240
TTGAGGGGAT	CATTTTGGG	AATTTTGACA	AGCCCGTGGG	GTCTTGGA	CTGGATTGAA	300
GGTCGAAAAG	GAATTAAATT	CTGTGGCTC	TGTAAGTCT	CGAG		344

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 586 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

GAATTCGGCC	AAAGAGGCCT	AGGGAATTG	TTTTTGCATA	GGGAATAGG	TAAACCAAAA	60
GTGGTATTAA	AAGCAGTGCT	ATAGTAAAAG	GAGATTTTTT	TTAACTCCAC	AATAAAAAGT	120
TTAGGCCCAA	TTTCATAGTA	AAACTATTCT	AATTAAGGAT	TGAACATATT	ATCACTTGCC	180
TTGATTTTGA	CCAGTGACAT	TTTTTGGCTT	CTTCATTTC	CTGTGACCA	TCTGAATGCT	240
TTCTATTTGG	CTCTTTAATG	CCCAGATTTT	ATTGACATTG	GTGGCGAATC	CCTATTTCATA	300
CACAGACAAA	GCATCTGACT	TTGTCCAAGA	AGCAAGCATG	CTGCAGGCCA	CTATGACGAA	360
GCAAGAAGCC	GATGACATGA	GCATTCCCAT	CTCCACATT	GACGATGTTT	TCGACATGGT	420
GGATGTCCTG	GTGGAGGGCA	GTGAAGGCTT	GGATGAGGAA	ATAGGGTTCA	CGTTGAGTGA	480
AGACATGATC	CTGCTCACGT	TCCCATTCAG	TGCGGTAGTC	CCTGCGGCCC	TGGAAGCCAG	540
GAATAAGTTG	CTCCTTGGGA	CAGGCAATGA	AGCAGATACC	CTCGAG		586

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

GAATTCGGCC	AAAGAGGCCT	AGTTGAACAT	AACCTGTAGT	GTGAATATGG	TAAAAACAAA	60
GGACACCTGA	TGTCTGTGAA	GTCTGCTAAG	GACAGGTACA	AAATTTATGC	ATTGCTTTTT	120
AAAAAGTTTA	AAATGAGGAA	TGCTTTTGAT	AATCAGAAAG	ACTAATGTAA	AGTGCTGACT	180
GATGTCCTGT	CTGCAGTTAA	GGAAGACACC	CAACTCTCTT	CTTCCTCATC	ATGGTATTCT	240
CTATGTATAG	ATCTCTAAAA	ATGCAAACTT	CCTATGGACA	AGACAATATG	ATTTGCTATA	300
ATATGAATTA	AGATATGGTA	ATATCTAATA	GTCTCCACTG	CTAGGATTCT	GAGTAACACA	360
AAAAATAGGT	TTTATAAAAA	GCCCATGCAC	TTCAATTGGT	GGGGGAAAAG	AATAAAGTCA	420
TTTTCACTCG	ACTGACTCTG	TAAAACAGAT	TACCAATATA	ACAAGCTATG	TTATCTAAAT	480
TGCCCTGGCT	ACTCGAG					497

(2) INFORMATION FOR SEQ ID NO:1287:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 329 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

```
GAATTCGGCC AAAGAGGCCT ACAGGAGTTC ATTTTCATCC AAAACAAACA CTGGACTTCC      60
TGCGGAGTGA CATGGCTAAT TCCAAATCA CAGAAGAGGT GAAAAGGAGT ATAGTAAAC      120
AGTATCTAGA TTTCAAACCT CTCATGGAAC ATCTGGACCC TGATGAAGAA GAAGAAGAAG      180
GGGAGGTTTC AGCTAGCACA AATGCTCGGA ACAAAGCAAT TACCTCACTG CTTGGAGGAG      240
GCAGCCCTAA AAATAATACA GCAGCAGAGA CAGAAGATGA TGAAAGTGAT GGGGAGGATA      300
GAGGAGGAGG CACTCCCGGG GAACTCGAG      329
```

(2) INFORMATION FOR SEQ ID NO:1288:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 459 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

```
GAATTCGGCC AAAGAGGCCT ATGCATCGCG GGAGGCGCAT GGCGGGGATG GCGCTGGCGC      60
GGGCGTGGAA GCAGATGTCC TGGTTCTACT ACCAGTACCT GCTGGTCACG GCGCTCTACA      120
TGCTGGAGCC CTGGGAGCGG ACGGTGTTC AATCCATCCT GGTTCCATT GTGGGGATGG      180
CACTATACAC AGGATACGTC TTCATGCCCC AGCACATCAT GCGGATATTG CACTACTTTG      240
AAATCGTACA ATGACCAAGA TGCGACCAGG ATCAGAGGTT CCTTGGGGAA GACCCACCCT      300
ACGAAGTTGG AATGAGACCA TCAGATGTGA TAAGAAATC TTCTAGATGT CAACATAACC      360
AACCTTATAA AGACTAAAAT TCATGAGTAG AACAGGAAAA TCATCCTGAC TCATGTGTTG      420
TGTTCTTTAT TTTTAATTTT CAAAGAGGCT CAGCTCGAG      459
```

(2) INFORMATION FOR SEQ ID NO:1289:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 333 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

```
GAATTCGGCC AAAGAGGCCT ACTACCTGCC TGAAATTCAT TGCCGTGTTC CTTCTGGACC      60
AGTTTAAAGC CATCTCTTCT GTTGTTCCTT TCCTCCCAA GATGTAGACT TTTCCACTTA      120
AAAGCATTTT CAAGATTCTA TTTTTCATC CTTTTCCTG TCCCTATTCT CTTTCACTCC      180
CCACACTTGT TCCTAGCCTG TCTCTGTTC TCTGATGTCC ATGTTGATGG TGGCGGTCTT      240
CAACCATGCC ATCCGTGTGC CAACCCAGCA CTTTCCTGCC ATCCCTGTAG CCCTTGCCCC      300
AACATCTGTG CATTGACTC CCCACCACTC GAG      333
```

(2) INFORMATION FOR SEQ ID NO:1290:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 326 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

```
GAATTCGGCC AAAGAGGCCT ATCCACCCGC CTCAGCCTCC CAAAGTGTTG GGATTGCAGG      60
TGTGAGCCAC TCGCCTGGC CTAAACAAAC TTTTGAAAA GCTGTTTCTA AAAGATTCCT      120
TAAATTCAGA TATGACAGCT AATTACCTCA TCATAAATTA CTTTATACT AATTGTTTCC      180
AGGGTTTITAG AGTAGTTGAA TGTTATTTC ACAAGGCACC CTAAATTCTA TAGAAATAAA      240
ACCTCAGATG AGTCTCCTTC TTAGAGTGTT ACAATGAATG GGAGTTTACA ACTTTTATGT      300
GTCATGTTTC CAACAGCTAT CTCGAG                                         326
```

(2) INFORMATION FOR SEQ ID NO:1291:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 281 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

```
GAATTCGGCC AAAGAGGCCT ATTGAATTCT AGACCTGCTG CTCGTGCTC GTCCAGTACA      60
TTGGCTTTGA AATATACTTG AATTGTGGA GGCAGGTGT AGAATGACAA AAACAAACAA      120
AAACCCACACA ATACAGACCA AATTGGGGTA CACACGGACA GATTGTTTTT AATTTTATTT      180
TAATTTTGA GTTTCTATGA GAAGAAGAA GAGGAGAGAC AAAAAAGGGG AAGAGTGAGA      240
GATAGTATAT TTAGGGTATG ACAAATCAGG GATGGCTCGA G                                         281
```

(2) INFORMATION FOR SEQ ID NO:1292:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

```
GAATTCGGCC AAAGAGGCCT AATTAACTA AATCTTAGGG ACTTAGGGAT TAAACTAAA      60
TCCCCACCAC ATCTGATTTT CCTTCCTCG AAATACCAAT AGTACGTGCA ACACAGACTT      120
GTAGCTCAGA GGTGCGATGC TGTTCAAAT TCTTGGGATA TGCATGTTAC TTTTITTTAA      180
AGAAGTGGA TATCAGACAC CTGAAGGTCA AGTCTCTCTG TGCCACCAAC AAACCTCTCGT      240
GACCTTGAGC CCTCCTCTC AATTCCTCTT CCGTAAAAGA AATACCTCAC AGTGGCTGTG      300
CAATCACCAA ATAGGAACTA CAGGTGGCAT TATTTATCTT TTGCCCTTGT GTAAGAAAAG      360
ACTCGAG                                         367
```

(2) INFORMATION FOR SEQ ID NO:1293:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC AAAGAGGCCT AGGATATTTT AAATTTTGTT AATTTTGTTT CGTGGTCTCT	60
GCCTGAATAG ACAGGCACCT GCCTGGAACG TAATACTGTT TCACTGCCTC GTTTTACCT	120
GTTTAATCTA GAACCAAAT GTGTCAATGT GTCAGCCCGT TTGTGCTTTT ATAACAAAT	180
ACTACAGACA GTAATTATA AAGAATAGAT ATTTATTTCT TCACAGTTCT CGAG	234

(2) INFORMATION FOR SEQ ID NO:1294:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 562 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC AAAGAGGCCT ATACTGATCC TCTCCCCTTG TGCATCACTT TTTCAGTGCA	60
GATATCTTGT AGCTCCGTGT CTAGAGGTAG CCAAGGTATC CTCCTAGCTT GCCTTCTTGG	120
TTTTATACAT GCTTCAGTAT GTAAGACAGC TTGTAGTCCA AACTCATGAG ATGACTATTCT	180
TGCCTGCCCC ATCTTACCTC AACCAAGTGAG CCTGCATGCA TGTGCTCCTC AGTCTAGTCC	240
CAGGATAGGA GGTAGGGGTC TCACATCGAC CTCAGTTCA TATGACTTTT TCTAACTCAC	300
CTTTACCACA CAGCCCCTAC TGTGGGGCTT ATAAAGTGTC ATGGAGATTG GTGAAGTCAA	360
TGTTTCCTTT CCTTGTTTAT GTGCTTTATA AATTAGGTCC CTCTCCAAA CTTTTCATC	420
ATCCTAAACT GAAACACTAT GCCCATGAAG AAGTCATTAA ATAAAGACT GATAAATTTG	480
ACTCCATAAA AATTAAAAAT TTCTATATAG GAAAAAATGC CTCAAAGTCA AAAGTCAATC	540
ACCAAAGTGG GAGTTACTCG AG	562

(2) INFORMATION FOR SEQ ID NO:1295:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 322 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC AAAGAGGCCT AGACACCCGT CATTGCAATT TATATTTTAA CAAAGGCTTC	60
TGATCCTAAT TTCAGGAAAT AGCCTCTAAA CTCATCTATT AGTCCCAAAT TCTTTACCCA	120
TTAAATCTGC TATTTTATGC CTCCTATATT CTTACCTTCA GATGTTGAGA GGTGGGGCA	180
TAAAACTTTG CAGCACGTCT GCAGTCTTCC CTCTAGAGTG AACTTGATCC TGCTGTTTGT	240
TCTTTTATT CTCTCAAAG TTAAATCATA TTCCAGCATT CATGGTATTT CTCCAGCTTG	300
TCCTCCACAC TCACCCCTCG AG	322

(2) INFORMATION FOR SEQ ID NO:1296:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 313 base pairs



(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

GAATTCGGCC AAAGAGGCCT AAGCTGTTCT GGTACTTGTC AAAAATGGCT TCCAAATATA	60
TTCCTTTTAA TACAGGATGT GAAAACACTT CCTAATAAAT TCCTGCAAAA TTAGATGATA	120
CTGTATGTAC TTCTGAAGGA CAGACAAGAA AGTAACCTAA GACCAAAACA ATAGAGGTCT	180
CCTACTACTG GGGAGAAGGA GGATTATCAA GAATAGAGGA AAACAGAGCC TGCCTAAGAC	240
TAATACTGGT CTAGAACAAA AGAGAAAGCT CAATTCCTAC CACCACAAAG CTAACAGCA	300
TCCAAGGCCT CGG	313

(2) INFORMATION FOR SEQ ID NO:1297:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 340 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC AAAGAGGCCT AGATTTTGT CTTTAATTCT CTGTGTTTTC AGNACCTTGC	60
GATTTTAA GTATATTAAC CTTTCTCCT AGATGTTTAC CTTTGAAATA CCTCTCTCTC	120
CTAATGATT AGACCTATGT GTCCAACTAC TTTTCGGACA TGTTCCCTA GATGTCTCAT	180
GGTAACTCC AATTAAACAT TTCCAAAGTT AAATTTATTT TATTTTACCA GACTTGGGTT	240
TTTTGTTTC TTGTTTTTG CTTTTCCT TTTTAAGATA TCCTGGAGTC ACCAGAATCC	300
TATCTAGATA CCCTTGGTTA GAGTTGCTCA TGATCTCGAG	340

(2) INFORMATION FOR SEQ ID NO:1298:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 370 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GAATTCGGCC AAAGAGGCCT AGCTTCTTCT GAGAGAGTCT CTAGAAGACA TGATGCTACA	60
CTCAGCTTTG GGTCTCTGCC TCTTACTCGT CACAGTTTCT TCCAACCTTG CCATTGCAAT	120
AAAAAAGGAA AAGAGGCCTC CTCAGACACT CTCAGAGGA TGGGAGATG ACATCACTTG	180
GGTACAACT TATGAAGAAG GTCTCTTTTA TGCTCAAAAA AGTAAGAAGC CATTAAATGGT	240
TATTCATCAC CTGGAGGATT GTCAATACTC TCAAGCACTA AAGAAAGTAT TTGCCCCAAA	300
TGAAGAAATA CAAGAAATGG CTCAGAATAA GTTCATCATG CTAAACCTTA TGCATGAAAC	360
CACGCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:1299:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 342 base pairs  
(B) TYPE: nucleic acid

- (C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

```
GAATTCGGCC AAAGAGGCCT AGTTGGAGTT TGCTGATAGA AGGACTAGCT AAAGGCGTCA      60
CTGCAGGAAT TACAACTGA AGAGGACTCT GTTGGACTGT TTTTNTTTTC TTTTNTTTT      120
TTTAAAGAAA AACCCATTTT TTTCCTTAAG GACTTACTAG CCAAAATTTT TTAACCTTCG      180
AGGACTCTAC TAGCCATGGC CGAGCCATTC TTGTCAGAAT ATCAACACCA GCCTCAAAC      240
AGCAACTGTA CAGGTGCTGC TGCTGTCCAG GAAGAGCTGA ACCCTGAGCG CCCCCAGGC      300
GCGGAGGAGC GGGTGCCCGA GGAGGACAGT AGGCATCTCG AG                                342
```

(2) INFORMATION FOR SEQ ID NO:1300:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 217 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

```
GAATTCGGCC AAAGAGGCCT ATCTAGACCT GCCTCGAGTT GGTCTATCCT ATGCTTTATA      60
CGCTAAGAGA GACCACATTT TATTGCTGT GTCCAACACA GGAATTTAAT AAATGTTGAT      120
TTTAGGAATG CTTCAAGTT CCTCTTATC TTTATATCTC TTTCTACTTT GGCTTCTCCT      180
CTCTAGAGAA GTTCTAGATC TTTCCCAAC TCTCGAG                                217
```

(2) INFORMATION FOR SEQ ID NO:1301:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 237 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

```
CCTTCGGAGA GAGGCACGCC CGGCCCGGAC AGTTCAGGCT CTCTCGGCTC CGGGGAGTTT      60
ACTGGCGTGA AGGAGCTTGA TGACATCAGT CAAGAGATTG CCCAGTTACA AAGAGAGAAA      120
TATTCATGGA AACAAGACAT TCGAGAAAAG GAAGAGGCAA TCAGACAGAA AACCANCAG      180
GTGCAGGAAT TACAAATGA CCTAGACCGG GAAACAAGCA GTTGCAGGA GCTCGAG                                237
```

(2) INFORMATION FOR SEQ ID NO:1302:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 379 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTCGGCC	AAAGAGGCCT	ACAAAGGAGA	CCCTTCATAT	CAAATACAG	TTATCAAAAT	60
ATTTTAAAGT	TATATATAAT	TATGTGCTTC	TNCTAATG	TCTTAAATAA	TGAGATCAAA	120
CAGCAGATCT	TAAAACTGT	CATAATATTT	GGAGTAGTGA	TGGGCATAAA	AGTTATTCTG	180
AGATCTCCGC	AGGAAGTGT	ATGTGATATG	AAAAAGTCTG	TGACTCCTCT	TACCAACAAA	240
GTCTCAAGTC	TCAAGTCTAC	TACTAGGGTA	TGTTACCTAC	ATTCCCTAAG	TGAGGGAAAT	300
GTTATGTTTC	AGTTGAGGGC	AAATGATGGC	AATGATGTAA	TTTTTTTCTC	TTTCAAGTTC	360
ACAGCCCCCC	CCGCTCGAG					379

## (2) INFORMATION FOR SEQ ID NO:1303:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 285 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

GAATTCGGCC	AAAGAGGCCT	ATTTTGCTGA	TTTCTTCTTA	CATATGAATT	ATGTGGGTAT	60
GTTTAATTTT	AAGTTAGGAT	AAACAGGCGT	TAAGTAAGGG	TTAGTGTAGA	ATTTAAGCAT	120
GTCATTTTGT	TAATCTCATC	GGGCTTGAT	TTCATTAGTT	TAGGCCCTCC	ATTTTATAGA	180
TAGTGGTTC	CAGACTCCC	GGCTGCCTCA	ATCTCCTGGG	TCTTTGTAA	ATAACCTTAA	240
GCAAGCTCAT	TTCCCCAGT	GTGTTCAAGT	CACAGAAAGC	TCGAG		285

## (2) INFORMATION FOR SEQ ID NO:1304:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 356 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GAATTCGGCC	AAAGAGGCTT	AGTTGGTATC	TGCCCAGGGA	TAATTGCTCT	TAGGGTAAGA	60
CTTTTAACAT	GTAAGCCAGC	CTGTCAAAG	TGCACCTAAA	AGTTCTCTTT	CAGTCATTTT	120
CTGAGTTACT	GATAGGAACA	TAGGTACTGT	GTGAATCAGA	TCTGAGAGGA	TTATGAATGT	180
TATAGAATGC	CTTTTGTTAG	GGAATTTAAG	CCCAGAAGAA	GTTGGGAAAG	TGACAGATTT	240
ATATAAATGC	GAGTGACAAA	ACCAGTTAAA	ATGTTCTGAC	TCAACCTGAA	ATATGTTGGA	300
CTATATAATA	AATATAATAT	TGTGAGATAT	TCTGAACTAG	ACTCAACTCG	CTCGAG	356

## (2) INFORMATION FOR SEQ ID NO:1305:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 489 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

CTCGAGTACG	TAGCGTAGAA	ATAGAGAATA	GGTCATCAGG	TTGGAGGTGG	AGTGTTTAAG	60
------------	------------	------------	------------	------------	------------	----

```

GACAAAGTTA TAAAGAAGTT TTTTGGTTTG AAAAATTAGA GGATAGGTTT GTACCATAGA      120
CAAATGGATA AGTTCGGAAA AAATCTTTT TTTTTTTTTT TTTTTTTTAA AAAAAAGCC      180
ACGGTCTCAC TATGTTGACC AGGCTACCAG GCTCGTCTCA AACTGCTGGC CTCAGCAAT      240
CCTCCACCT AGGTCTCCCA AACTGCTGGG ACTACAGGCA TGAGGCAGAA TCGCCGAAC      300
CCAGGAGGCA GAGGCTGCAG CGAGCCAAGA TCACGCCACT GCACTCCAGC CTGGGTGACA      360
GAGCAAGAAT CCGTTCTCCA AAAAAAAGA AATAAATAAA ATAAAAAGG GTGTTCCATA      420
GGGGTGATGG GGAGGATGAA ACGTCATCAA ACAAGTTTAA GAAACATCTA GGCCTCTTTG      480
GCCGAATTC

```

## (2) INFORMATION FOR SEQ ID NO:1306:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 315 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

```

GAATTCGGCC AAAGAGGCCT AAATCTAAAT AAAGAAGAAA TACAGGAAAA GGAGACAATC      60
ATTGAAGAAT TAAACACAAA AATAATAGAA GAAGAAAAGA AAATCTTGA GCTAAAGGAT      120
AAATTAACAA CTGCTGATAA ATTACTAGGA GAATTACAAG AACAGATTGT GCNAAAGAAC      180
CAAGAAATAA AAAACATGAA ATTAGAGCTG ACTAATTCTA AGCAAAAAGA AAGACAGTCT      240
TCTGAAGAAA TAAAACAGTT AATGGGGACA GTCGAAGAAC TTCAGAAGAG AAATCATAAA      300
GACAGCCAAC TCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1307:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 212 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

```

GAATTCTAGA CCTGCCTCGA GTAAAGCCTG TAGGTAAAAT GGAGACAGAT TTGAAAGAAA      60
TTAGAGAAGA AATTTCCTCA AGGGAAAAGG TGCTAGCAGA GATCAGTGCT ATAAGGGAAA      120
AGGAGATTGA TTTGAAAGAA ACTGGAAGAA GAGACATTCC CATGATGGAG AAAGTATCAG      180
GAAAGATGGC TGTGTTGAA GGACATCTCG AG

```

## (2) INFORMATION FOR SEQ ID NO:1308:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 270 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

```

GAATTCGGCC AAAGAGGCCT AGAAATATTA ATGAAATCGC TGAAAAGCTT TGCCTTCGAG      60
AGGCCAGAAG CCTCGGGGAA TGTCTGCAAG TCCAAAGACG CGTGTGGGT GTGCCCTGAA      120

```

```

GTGCCGTCCA GCAGGCGCGT GCGGCCGGGC CGGCCTGTGC GTGTGGCCTT TGCCTTCTTC      180
CCTTTCTTCC TGTTTCTGT TTTTAAATT TGGGGACTGG TGAGGGCTCG TCCATGTCCT      240
TTGTCAGGTC TTCTTGCTCC TCCCCTCGAG                                     270

```

## (2) INFORMATION FOR SEQ ID NO:1309:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

```

GAATTCGGCC AAAGAGGCCT AGTCTTATAC CTGGGATGTA GCTGACAAAT TATTGCATTG      60
TAAATGAGT CACGTGAATC ACGGAAGCTT TAAACTTTTT CTTTTATAG CCCTACCTGA      120
ACCCATCCTT CCATCCCTCC AAAAAATTAA CCCAGTAAGT GTTCTTATA AATTATTATA      180
ATACATTTTA TGTCAAGTGT ATGTAGAACT ATTATAAGTA GTATTAATGT GATTATAAAA      240
GTAGTAAGGC TAAGTACATG ATAACATTTT CTATATATAC CAAGAGAACA TTAAAAATGT      300
TTCATATACT GTTTCAGAAA ACTCTCTTAC TTGTTATTTT GTTATTGGCA GACAGTCTGG      360
TCAGTTGTGT TAATGGTGA CTCGAG                                     386

```

## (2) INFORMATION FOR SEQ ID NO:1310:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

```

GAATTCGGCC AAAGAGGCCT ACCATTTTAG CCTGCAGGCT TCCTTGGGCT TTCTCTGTGT      60
GTGTAGTTTT GTAAACACTA TAGCATCTGT TAAGATCCAG TGTCCATGGA AACATTCCCA      120
CATGCCGTGA CTCTGGAATA TATCAGTTTT TGGAAAGCAG GGTTCTCTCG CCTGCTAACA      180
AGCCACAGTG GACCACTCTG AATGTCTTTC CTTTACACCT ATGTTTTTAA GTAGTCAAAC      240
TTCAAGAAAC AATCTAAACA AGTTTCTGTT GCATATGTGT TTGTGAACTT GTATTTGTAT      300
TTAGTAGGCT TCTATATTGC ATTAACTTG TTTTGTAAAC TCCTGATTCT TCCTTTTCGG      360
ATACTATCTC GAG                                     373

```

## (2) INFORMATION FOR SEQ ID NO:1311:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 402 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

```

GAATTCGGCC AAAGGAGGCC TAAACAGATA TTTACTGAGC ATTTACCATG TTCAGTAACC      60
AGGGCCCTGG GAATATAATA GGAGAAGGCA GATGAGATCC TTGCCTTCAC CAAGCTTATG      120
TTTTTCTATT TTAAGTAAAA TTTGCCATGA CAAAATTCT ATCAGCGGAA GAGCCAGTAA      180

```

CTCTTATTGT AATAGGTTTT ACCCAGTTTT AGAAAAGGAA AGTAGCTAAA CTCTTGTTTC	240
CTTGGTGTGT GTTTTGTGT GTTCATTCT AGTACTTGTC TATGTCTTTG GGGTAATTTT	300
TGATTTAGAA TTTTGTAGAA ATTACTCGGC ACAGTGTAGT TGAGGTGAAT ATAGGCAAGA	360
AGGCTTAGGA AGCCTACAAC AAAGGAATCT GACACACTCG AG	402

## (2) INFORMATION FOR SEQ ID NO:1312:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 519 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTCGGCC AAAGACGCCT AATTGAATTC TAGACCTGCC TCGAGTTGGA CCCTGAGTGT	60
ATCACTCCCA AGTGTGTACT ATTTATACAC AGCAGTTTCC AATGTACTCA AATCAACCTC	120
ATGTTCTTTG CTGTAGTAAG CTGAATGAAC ATGACTCTTG AATCACCTTA AATATGCTTG	180
ATAACATGTC AGGATTCAGA ACAGCAAAAA AGAAAGCTTT AAAGGGAGAT ATGCTGGGCT	240
CATTACATC AAACGTCAGG GGAAACCTGG TTTATGTCCC ATAGCTACTA GAATTCCTAC	300
ACTTGCCAG CTTATTTTAA TAGACCATT CTCAACTACT CTAGCTGTTT TGTCTAGTTC	360
TAAATAAAAA GCTAGGTAGT TGGGTACTAA AAGGCAAATA TGAATATATC AGTGGCTCTG	420
TATCATCTGC AGCAGTGGTT CTCAGTGTGA TTCCTGGACA GGCAGCACAA GCATCATCAG	480
GGAACCACTC GGTAATGCAA ACTCTGGGGC GCACTCGAG	519

## (2) INFORMATION FOR SEQ ID NO:1313:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTCGGCC TTCATGGCCT ACGAGGACGT GAGCAGATAT ACCAGCCCAG TGAACCCAGC	60
TGTTCTCCCC CATCTGACCG TGGTGTCTTT GGCCATTGGC ATGTTCTTCA CCGCCTGGTT	120
CTTCGTTTAC GAGGTCACCT CTACCAAGAC ACTCGAG	157

## (2) INFORMATION FOR SEQ ID NO:1314:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

CTCGAGTTCA CTACCATGAC AATCATTAAAT TAATTTGGTT TCTCTAGTGA GGTTAGTTGC	60
TTTCTTCCCT TCCTCCAGCA TCTGACCAAG GTCTGATTCT ACAGCTATTT GGGAAACAGT	120
AGTTTCTGGT GACATAGCTG AAGACCCTGA TGCTGTCATA GTCTGAATTC CAGAATCTTT	180
AGAATCTTGA GTTTCAGTAT CAGTTTGCTT TTCAGTAACA GGTTTTCCTT CTTGAAATAT	240

TAATTTGTCA TCATTACCAA ACATGTCCAG TTTTTCACCG GCTTCAGATG CAGCTGGAGA	300
CAAACTGTTA TCTTGGAGCT CTGTGGGTAG ATTAGCTTCC TCAGTAGGAC TGCCTTCTAC	360
TTTCAGTTCC ACATAATCAT CATCTTCCTC TTCCTCTACT ATAGATTTAT CCAAGAATTG	420
TGGCATCTCT GAGGCAGGTC TAGAAATTC	449

§

## (2) INFORMATION FOR SEQ ID NO:1315:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 411 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

GAATTCGGCC TTCATGGCCT AGTGAATAC TAGGATATTT GTTTGGCAGC AATAGAGCGG	60
CAACACCCCTT CTCAGACTCG TGGTACTACC CGTCCTATCC TCCCTCCTAC CCTGGCACGT	120
GGAATAGGGC TTAATCAGCC CTTCATGGAG GCTCGGGCAG CTATTCGGTA TGTTCAAACT	180
CAGACACGAA AACCAGAACT GCATCAGGAT ATGGTGGTAC CAGGAGACGA TAAAGTAGAA	240
AGTTGGAGTC AAACACTGGA TGCAGAAATT TTGGATTTT CATCACTTTC TCTTTAGAAA	300
AAAAGTACTA CCTGGTTAAC AATTGGGAAA AGGGGATATT CAAAAGTTCT GTGGTGTTAT	360
GTCCAGTGTA GCTTTTGTGA TTCTATTATT TGAGGCTAAA AGTTGATGTG T	411

## (2) INFORMATION FOR SEQ ID NO:1316:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC AAAGAGGCCT ACATCCAACA AGAAGCCATA ACTTTATTTA TGATAGAAAC	60
AGTACAAATT TCAAACCAAG CTGCAGTTAC TCCTTTGAGA CACCAGAAAA AGTTGCCTCC	120
ATATGGTTAC ATTGTTAATT CCATAATCGC ATTTACAATA TCATTACTGT TGTCTTCAG	180
GGCTCGGACT GCCTTTGCTC TCGACACATT TGCTTGTGAC ATGACCAATT CTATGTCCTT	240
AACTTCTACA CCTGTTTCAC TTCCTCTTCT CGAG	274

## (2) INFORMATION FOR SEQ ID NO:1317:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC AAAGAGGCCT AGGCGGAGGT GCAGGTCCTG GTGCTTGATG GTCGAGGCCA	60
TCTCCTGGGC CGCCTGGCGG CCATCGTGGC TAAACAGGTA CTGCTGGGCC GGAAGGTGGT	120
GGTCGTACGC TGTGAAGGCA TCAACATTTC TGGCAATTTC TACAGAAACA AGTTGAAGTA	180
CCTGGCTTTC CTCCGCAAGC GGATGAACAC CAACCCCTCC CGAGGCCCTT ACCACTTCCG	240

GGCCCCCAGC CGCATCTTCT GCGGGACCGT GCGAGGTATG CTGCCCCACA AAACCAAGCG 300  
 AGGCCAGCC GCTCCTCGAG 320

## (2) INFORMATION FOR SEQ ID NO:1318:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

GAATTCGGCC AAAGAGGCCT ATAATTTTTA CCATCATTTA CCCTGATAAT CTGCCTCTTC 60  
 TCCATTCTC CTTCCTTAC TACCTTTCTT TGAATTACTG TAACTGATTG GTCCCACCAA 120  
 AATTTTAAAG TACATGAAGT ATCTTCATTG GTTCATCCTC TTGCCCCCTC CAGATGTCAA 180  
 AAAACTTTAT CCTGCCCCCT TGCCTCCACC CGATGGCCCA CTCGAG 226

## (2) INFORMATION FOR SEQ ID NO:1319:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 192 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

GAATTCGGCC AAAGAGGCCT ATGAAGCTTC TGAGTTCTGC GGCCTCACNT CTGAGAAAAC 60  
 CTCTTTGCCA CCAATACCAT GAANCTCTGC GTGACTGTCC TGTCTCTCCT CGTGCTAGTA 120  
 GCTGCCTTCT GCTCTCCAGC GCTCTCAGCA CCAATGGGCT CAGACCCTCC CCCCCTGGC 180  
 AAATCTCTCG AG 192

## (2) INFORMATION FOR SEQ ID NO:1320:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 210 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

GAATTCGGCC AAAGAGGCCT ATTTATTACA ACAGATCTTT TAATGACTAT TTTTAACATA 60  
 AAGATTGTTG TTTTGGGAAA CATCTATTCT CTTTGAACAT TTCACTAAAT TTTCAATGTA 120  
 TTAATAACT GACAGAAATA AGTTCTGTGT TCTGTACAAA TTAAAGGTCC CATGAATACA 180  
 TAACCCCCAC CCCCCCCCCG TCCAATCGAG 210

## (2) INFORMATION FOR SEQ ID NO:1321:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156 base pairs
- (B) TYPE: nucleic acid



(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

```
GAATTCGGCC AAAGAGGCCT ATTTTCTTTT TGATCTATGA ATGATTATT AGATAAATTC      60
TATACATACA AAGTACAGAT TCTTCATTTA GCATTGATTT ACTTCTTAGT TTTCATCTTT      120
CTGACTATCC AAACCGCTGA CTCGAGGCAG GTCGAG                                156
```

(2) INFORMATION FOR SEQ ID NO:1322:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 199 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

```
GAATTCGGCC AAAGAGGCCT ATTTTGTCTA CACTATGTTA CAGAACAGCT TATAAACTA      60
GGTATGAACA TTAAGTGTGA GTGTAAACAG TAGGACTACC ACTTGTCAA AGTTTAAAC      120
ACTTGAAGTG GAACTGGTAC TGGTTATTCA TCATTTTCAT TGTTTTCTAT TTCATCCCCC      180
CCACACCCCT CTGCTCGAG                                199
```

(2) INFORMATION FOR SEQ ID NO:1323:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 209 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

```
GAATTCGGCC AAAGAGGCCT ACACGGTACC AAACACAAC CAAGCATCGA CTCCTCCGCA      60
GACCCAGACC CCTCAGCCGA ATCCTCCTCC TGTGCAGGCC AGGCCTCACC CCTTCCCTGC      120
CGTCACCCCG GACCTCATCG TCCAGACCCC TGTCATGACA GTGGTGCCTC CCCAGCCACT      180
GCAGACGCCC CGCCACTCAG CGCCTCGAG                                209
```

(2) INFORMATION FOR SEQ ID NO:1324:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 229 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

```
GAATTCGGCC AAAGAGGCCT AATCACTACT CACAGTAACC TCAACTCCTG CCACAATGTA      60
```

CAGGATGCAA CTCCTGTCTT GCATTGCACT AAGTCTTGCA CTTGTCACAA ACAGTGCACC 120  
 TACTTCAAGT TCTACAAAGA AAACACAGCT ACAACTGGAG CATTTACTTC TGGATTTACA 180  
 GATGATTTTG AATGGAATTA ATAATTACAA GGCTCCAAAC TCACTCGAG 229

(2) INFORMATION FOR SEQ ID NO:1325:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 204 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

GAATTCGGCC TTCATGGCCT AGCTTTCCCA ATCTCTCGGA GCATGCACAT CAGGGCCACG 60  
 TTGGTCTTCC CAGCACCAGT AGGAGCACAC AGCAGCAGAT TCTCATCCGT CTCAAGGGCA 120  
 GCACGGTAGA GCTTACTCTG GATCCGATTC AGTGTTTGA AGCCCTCAAA CCCAGCCTGG 180  
 ATTGAATTCT AGACCTGCCT CGAG 204

(2) INFORMATION FOR SEQ ID NO:1326:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 192 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC AAAGAGGCCT AGCCGATCTC CAGCCCAAGA TGATTCCAGC AGTGGTCTTG 60  
 CTCTTACTCC TTTTGGTTGA ACAAGCAGCG GCCCTGGGAG AGCCTCAGCT CTGCTATATC 120  
 CTGGATGCCA TCCTGTTTCT GTATGAATT GTCATTCCCC CAGAGCGTCT CGAGGCAGGT 180  
 CTAGAAATTCG AG 192

(2) INFORMATION FOR SEQ ID NO:1327:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GAATTCTAGA CCTGCCTCGA GAATAGGATA GCATTAGTA ATTCATTAA CAATTTTAT 60  
 TGAATATCTA TTGTTTTATT GAATATGCTT GTTCTCACCT TAGCACATT GCCCTTGTTT 120  
 TCCCTGGGAT ACTATCCCC TAGATCTGAT TTTTGGTTTT TGTGTTTGT TGTTTTAATT 180  
 CTCTGCCATC TTTCTCCAGT CAAATGTCAC CAACTCTCG AG 222

(2) INFORMATION FOR SEQ ID NO:1328:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 267 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

```
GAATTCGGCC TTCATGGCCT AAGAAATGTT CACTTTTCCA ACTTAAAAGG ATTTTAAAA    60
ATACAAACAT AATTGACCTA CCTGGTTCAA AGAACAGAAG TGAGGAGAAC TTGCTTAAAG    120
GTATTGATGT TATATTTTCT CTTGACTGAG TGCTTGAAAA AAAATTTTAT TGAACATATG    180
TTCTCCTTCC GTGGCTTTT TGTCTTTGCT TTTTGTGTTT GTTTTGTGTT TTTTTCCTTT    240
GAGATGGAGT CTCACTCTCT GCTCGAG                                         267
```

(2) INFORMATION FOR SEQ ID NO:1329:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 267 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

```
GAATTCGGCC TATGGCCTAA AAAAAAAG AAAGAAATAG GATTGATACA GGTATAGATA    60
CATAGATACA TGAGAAGGGA TTTATTATGG GAATGGGCTC ATATGATTAC AATGATTACA    120
GAGGCTGAAA ATTCCACAA TAGGCCATCT GCAAGCTGGG GACCAGGGAA GCCATTTATG    180
TGGTACAGTC TAAGCGTCAA TCAGGAAAGC CAGTTGGGTA ACTCTCAGTC TGCAGCTGAA    240
GGCCTGAGAC CCGGAGGTCC ACTCGAG                                         267
```

(2) INFORMATION FOR SEQ ID NO:1330:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 267 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

```
GAATTCGGCC TATGGCCTAA AAAAAAAG AAAGAAATAG GATTGATACA GGTATAGATA    60
CATAGATACA TGAGAAGGGA TTTATTATGG GAATGGGCTC ATATGATTAC AATGATTACA    120
GAGGCTGAAA ATTCCACAA TAGGCCATCT GCAAGCTGGG GACCAGGGAA GCCATTTATG    180
TGGTACAGTC TAAGCGTCAA TCAGGAAAGC CAGTTGGGTA ACTCTCAGTC TGCAGCTGAA    240
GGCCTGAGAC CCGGAGGTCC ACTCGAG                                         267
```

(2) INFORMATION FOR SEQ ID NO:1331:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 494 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

```

ATGGATTGGT TGCCGTGGTC TTTACTGCTT TTCTCCCTGA TGTGTGAAAC AAGCGCCTTC      60
TATGTGCCTG GGGTCGCGCC TATCAACTTC CACCAGAACG ATCCCGTAGA AATCAAGGCT      120
GTGAAGCTCA CCAGCTCTCG AACCCAGCTA CCTTATGAAT ACTATTCACT GCCCTTCTGC      180
CAGCCCAGCA AGATAACCTA CAAGGCAGAG AATCTGGGAG AGGTGCTGAG AGGGACCGGA      240
TTGTCAACAC CCCTTTCCAG GTTCTCATGA ACAGCGAGAA GAAGTGTGAA GTTCTGTGCA      300
GCCAGTCCAA CAAGCCAGTG ACCCTGACAG TGGAGCAGAG CCGACTCGTG GCCGAGCGGA      360
TCACAGAAGA CTACTACGTC CACCTCATTG CTGACAACCT GCCTGTGGCC ACCCGGCTGG      420
AGCTCTACTC CAACCGAGAC AGCGATGACA AGAAGAAGGA AAAAGATGTG CAGTTTGAAC      480
ACGGCTTACT CGAG                                         494

```

## (2) INFORMATION FOR SEQ ID NO:1332:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 317 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

```

GAATTCGGCC TTCATGGCCT AGCTGATATT ATTCTGAGT TTTTGCTTAT TTGCTTTCTA      60
CATAGAATCA ATAAATTTGA CAACTAGCAT TGCCTATATA TGCAGGTGTG ATACTATTCA      120
GGGTACTAGT ATATTGGCCA CTCATTATGA AACTTTTCAGG TCCTCATATA TTTTCTTTTA      180
TTACAATGAT CTACTTATTT CTGATAAATA TTGGATTCAT AGAGGCTAAA GGGCTGGGAA      240
AGGAAAACAT TCGTGACTAC TTACAACCAT TTGATACGAG TTGTGTCAAT ACAGACCTCA      300
CACAGCAGCA CCTCGAG                                         317

```

## (2) INFORMATION FOR SEQ ID NO:1333:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 255 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

```

GAATTCGGCC TTCATGGCCT AGCTTTTCTA GCCTTTCTCA AAGAAATGCA AACAGCTTGT      60
GTTTTTTCCT CTGGGTCCT ATTGTACCTA CTTTGTGTTG ATGGTCTCTC TGTCTCCCAT      120
GATGCCAGTG AATGTAGCAG TTTCTCTCCA CTTCCACCAG TGCCTGGGGA AAATTGCGTA      180
TTGGCAAAAT TGAGTTCTGC CTTTTTGAG CTTGCATTGC TGGATTCAAC CTTAGGAGCC      240
TCAGTTACCC TCGAG                                         255

```

## (2) INFORMATION FOR SEQ ID NO:1334:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GAATTCGGCC	TTCATGGCCT	ACTCTTCCCC	AAAAGGAAGC	ATTTACTCTG	CCTCTTACAG	60
TGCAGAGTGA	CAGAAATGGAC	ACAGAAAAAC	ATAGGTGGGT	CAGAACAGAT	CTCAGTTTGA	120
ACCCAGTAGC	TACTGGCTAT	AGGGTCTCTG	GGCAAGTGAT	TTGACCTCTC	TGCGCTCTGT	180
CTTCTCAAAT	GTAAAAACGG	GTGAGGCGCA	GTGGCTCATG	CCTATAATCC	CAACACTCCG	240
GGAAGCCAAA	GTGGGAGGAC	TCTCGAG				267

## (2) INFORMATION FOR SEQ ID NO:1335:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAATTCGGCC	TTCATGGCCT	ACAAATGTAA	AAATAACTGG	GCACTGAAGT	TTTCTATCAT	60
ATTATTATAC	ATTTTGTGTG	CCTTGCTAAC	AATCAGAGTA	GCCATTTTGG	GATATAAAGT	120
TGTAGAGAAA	ATGGACAATG	TCACAGGTGG	CATGGAAACA	TCTCGCCAAA	CCTATGATGA	180
CAAGCTCACA	GCAGTGGAAA	GTGACCTGAA	AAAATTAGGT	GACCAAACCTG	GGAAGAAAGC	240
TATCAGCACC	AACTCAGAAC	TCTCCACCTT	CAGATCAGAC	ATTCTAGATC	TCCGTCAGCA	300
ACTTCGTGAG	ATTACAGAAA	AAACCAGCAA	GAACAAGGAT	ACGCTGGAGA	AGTTACAGGC	360
GAGCGGGGAT	GCTCTGGTGG	ACAGGCAGAG	TCAATTGAAA	GAAACTTTGG	AGAATAACTC	420
TTTCCTCATC	ACCACTGTAA	ACAAAACCTT	CCAGGCACTC	GAG		463

## (2) INFORMATION FOR SEQ ID NO:1336:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GAATTCGGCC	TTCATGGCCT	AAATTCTAGA	CCTGCATCGA	GGGCGGCGAC	CTGATGATGA	60
CCAGCTTCGA	GAGGATGCTG	TCCCAGAAGG	ACNTGGAGAT	CGAGGAGCGC	CACAAGCGCC	120
ACAAGGAGAG	GATGAAGCAA	ATGGAGAAGC	TGAGGCACCG	GTCCGGAGAC	CCCAAGCTCA	180
AGGAGAAGGC	GAAGCCGGCA	GACGACGGGC	GGAAGAAGGG	TCTGGACATT	CCTGCTAAGA	240
AACCGCGGG	GCTGGACCCT	CCATTTAAAG	ACAAAAGCT	CTCGAG		286

## (2) INFORMATION FOR SEQ ID NO:1337:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

CTCGAGGGTT TTTGTTTGGC TGGTTGTGTG TACACAGTGT ATACAAGTTG AGTTGTACAG	60
AAGCCCAAGA AAGAGCAAGA GACAAAGGGT AGTGGGAGCA GGGGGTGGGG CGGGGGCGAG	120
AACGGGGAGG AGGGGAAAGG AGACCGATAA AAAATAGAAC CACATCCAGA CAACAAATGGG	180
GGATGGGCAG TGGGTGGGGG CCAGACACAG ACAAATCGCC GTAGAAAAGG ACTGGGAGGG	240
GCAGAGAGTA GAGGG	255

## (2) INFORMATION FOR SEQ ID NO:1338:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCGGCC TTCATGGCCT AAGAGAAAGC ATTTTAACTT TTATAGTAA CAATAAAAAA	60
GCCTCATAAA GCTTCTCACA ACACTTCAT TCGTTTCAGA AGTTAAGATA TATTCCTTAT	120
GAATACCAAC ATTGTGACAT TTGTGTTGCC AATTATTTTC TCTGGAATCA TTCITTTAAC	180
TTCACCTTCT GTTGTTTGGG AAGACTTTGC AGAGAACATA TTTTAAATAG GCTATAATCA	240
CACGGGCAAC AGACTCGAG	259

## (2) INFORMATION FOR SEQ ID NO:1339:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTAGAAG TATTGTTTAA TAAGTCCTTT TTTTCTACTC AACATTAAGT AGTAATCAAC	60
TTTTACCTCC GCCAGTTTTT CTGCTTTTTT GCTGGTACGA TCTCTCTTC TAAATTGAAT	120
CAAAGACCTA GGTGGAAGT GAAACTTAGG AGGGAAAGAC AAAATGAGGC TTGTCATGA	180
TCAAATTCTG TGTACTCTAG TTGCTTCTTT CCCTTGGAGT GACAGGTACT TTTATATCCA	240
GGATGATTAC AGTGATGACA TCCATTCTTT TTTGGGGGCC CTCGAG	286

## (2) INFORMATION FOR SEQ ID NO:1340:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 240 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GAATTCGGCC TTCATGGCCT AGGAATCAGT AGTGACTTTT GATTGTATTG TATAAGGTAT	60
TTTCAAATAG AAAAGCAGGT AGCAGAAATA CTAAAAGAAT TTTTGTCTTT AGTGTAAGT	120
AGATAATGAG AGGTAGATGC CTAATTTCTT AGTTTTCTTT TTAAAATTAT GCTAAAATAT	180
ATCATATCAT TTACCATTTT GACTATTTTA AAAGTATACA GTTCCGTGGC AAGTCTCGAG	240

## (2) INFORMATION FOR SEQ ID NO:1341:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 245 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

```

GAATTCGGCC TTCATGGCCT AAAAAATTGT GTCTTTTTTT TGGCAATGTT GTCTTGCCAA      60
TCCCATCCCT CCCCCAGCTC TCCGAACAGC AGGATTITCCC AACGGCAGCT TGGGANAAAG      120
ACCCAGTGGC AGCTTGGGGA AAAGACCCAG CGCTCCGTTT AGAAGCAACG TGTATCAGCC      180
AACTGAGATG GCCGTCGTGC TCAACGGTGG GACCATCCCT ATTGCTCGGC CAAGTCACAC      240
TCGAG                                     245

```

## (2) INFORMATION FOR SEQ ID NO:1342:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 134 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

```

GCGATTGAAT TCTAGACCTG CCTCGAGACT GAGCCGCAC CATGACCCTC CTGCTGCTGC      60
CCCTTCTGCT GGCCTCTCTG CTCGCGTCCT GTCCTGTAA CAAAGCCAAC AAGCACAAGC      120
CACCGCATCT CGAG                                     134

```

## (2) INFORMATION FOR SEQ ID NO:1343:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 381 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

```

GAATTCGGCC AAAGAGGCCT AAAAAGCTTC CAGCAGCAGA TGCAGAATTA CCTTAAAGAC      60
AACAAAACAG CCACTATTTT GGACAAATTG CAGAAAGAAA ATAATGCTG TGGAGCTTCT      120
AACTACACAG ACTGGGAAAA CATCCCCGGC ATGGCCAAGG ACAGAGTCCC CGATTCTTGC      180
TGCATCAACA TAACTGTGGG CTGTGGGAAT GATTTC AAGG AATCCACTAT CCATACCCAG      240
GGCTGCGTGG AGACTATAGC AATATGGCTA AGGAAGAACA TACTGCTGGT GGCTGCAGCG      300
GCCCTGGGCA TTGCTTTTGT GGAGGTCTTG GGAATTATCT TCTCCTGCTG TCTGGTGAAG      360
AGTATTGAA GTGATGTCGA G                                     381

```

## (2) INFORMATION FOR SEQ ID NO:1344:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 486 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

GACCAGATGG AANGGTCACC GAACAGTTCT GAGTCATTTG AGCATATAGC TCGATCTGCA	60
AGAGATCACG CAATTTCCTT TTCTGAGCCT CGTATGCTGT GGGGGTCAGA TCCCTATCCT	120
CATGCTGAGC CTCAACAAGC AACTACTCCC AAAGCAACAG AAGAGCCTGA GGATGTAAGG	180
TCTGAAGCTG CGTTGGACCA GGAACAGATT ACTGCTGCTT ATTCTGTAGA ACATAATCAA	240
TTAGAGGCTC ACCCAAAGGC AGACTTTATC AGAGAATCAA GTGAGGCACA AGTACAAAAG	300
TTTTTAAGCA GATCTGTGGA AGATGTTAGA CCTCACCATA CTGATGCAAA TAATCAGTCT	360
GCTTGTTTTG AAGCACCTGA TCAAAGACC TTATCCGCTC CTCAAGAGGA GCGGATTTC	420
GCTGTAGAAA GTCAGCCTTC CCGGAAAAGA AGTGTTCCTC ATGGATCTAA CCATACGCGC	480
CTCGAG	486

(2) INFORMATION FOR SEQ ID NO:1345:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 243 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCTAGA CTGACTCGA GGTGCTGGAA TTACAGATAA AAGCCACCAC ACGCAGCCCA	60
CATAAAGTGT TTATGGGAGC AACTAACAGT TGGTTTGAGC GCAGCCTAAA TAGGGGATGG	120
CAAGGTTGGG TTTTCCAAGG TTTTCTAATC TTTCTATTTC TTCTAGTGAG TCTTCAGGTT	180
ATTATGACTT GTGTTACCAG ACTATCAACA AAAGTGGGTA CCTCTTTAAA TCAGAGCCTC	240
GAG	243

(2) INFORMATION FOR SEQ ID NO:1346:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 294 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTCTAGA CCTACCCCAT CCACATGCAC AGCCAGCTGG ACCACCTTAG CCTCTATTAC	60
TGCAGGTGTA CTCTGCCAGA GAATCCAAAC AATCACACCC TCCAGTACTG GAAGGACCAC	120
AACATCGTGA CAGCAGAAGT CCACTGGGCT AACCTGACTG TCAGTGAATG CCAGGAGATG	180
CATGGAGAGT TCATGGGATC TGCCTGCGGC CATCATGGAC CCTACACTCC TGATGTCTC	240
TTTTGGTCCT GTATTCTCTT TTTACCACC TTCATCCTCC CAAGCACCTC CGAG	294

(2) INFORMATION FOR SEQ ID NO:1347:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 240 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double



(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

AGTTTCTCCA TTTTAGAATT TTGTTGTCCT CCTTAATCAT CTGCTTACCT AGTCATTACT	60
CAATCTGCAG AAACCTTCATA AAGGAAAAGT GCTGCATTGT TTTTACAAAT AACAGTTTGT	120
AGGGAAAATA TGACAAACCT CAACTATGGG AGTTGTCCAC AATACAAAAT TTTGAAAAAA	180
CATTACATAG TGATAATATC ATACTTGGTT GTTAGGCTTG TTGCTTCCCC ACCACTCGAG	240

(2) INFORMATION FOR SEQ ID NO:1348:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

AAGTATTCTT TCAATTGCAA AGTGGCAACA GCTTTTATAT GCTAAGTCTG ACAAGTTTGC	60
AGTCAGTGAA TGATGGCACA TGGCAGGAAG TGACCCCTTC CATGACAGAC CCACTGTCCC	120
AGACCTCCAG GTGGCAAATG GAAGTGGACA ACGAAACACC TTTGTGACC AGCACAATTG	180
CTACTGGAAG CCTCAACTTT TTGAAGGATA ATACAGATAT TTATGTGGGA GACAGAGCTA	240
TTGACAAATAT AAAGGGCCTG CAAGGGTGTC TAAGTACAAT AGAAATCGGA GGCATTATC	300
TCTCTTACTT TGAAATGTT CATGGTTTCA TTAATAAACC TCAGGACGAG CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCTAGA CCTGCCTCGA GACCTTTCTC CTGGTCTAAT GCTCCTTTTA AGGAAGGTGG	60
AAGGAACAAT GGAAGAATGC TTGTAAAGTA ATGTATTCTT AAGAACTAAA GCTATTTGCA	120
GAAGGGCCGA AGCTATGTGG TGTGAAAGGG AAATGAAGAG GGTGAGTTGG GGGGCTCGAG	180

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

```

GAATTCTAGA CCTGCCTCGA GCTTCCCTG ATCTTCTTCC ATCCCTTACT GACAGTGTTT      60
ACCAAGGATT TCCCTTGGCC TGCTTCTTTC TTTGACGCTC ATTTAAACCT TTCCCTTCAG      120
TTGCAGACCT CGTCTGCTTC TCCCAGCTAT TCCATTCTTC AGTTGCTTGT TAAACACGGC      180
CCACCATCAC CTCAAAAATG ATGTTAAAT GTCCCCATTT TTTATCAAAC TTAAGTTTCT      240
TCTGTGGAT CTGTTGCTCA GTACTCTCAT CTTTCCGATC ACTCGAG                      287

```

## (2) INFORMATION FOR SEQ ID NO:1351:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

```

GAATTCGGCC TTCATGGCCT AAAAAATTCT TTTTAAATGG GTTTTAAACA CTAACACTGA      60
GAATTTTCT TGATCCCAT CTGTTGGTTT ACTTGATTGC TATAGCTGTA TGGTAAATCT      120
CAAAATTAGG TAATGTGATT TCTTTTTCT TACTATTTT ATTTAAATTT CATTTAGCAT      180
TCCTAGTTTG ACTTCCATA TACACTTTAG GATTGGTTT TCTGTTTTTC AAATATTCTT      240
GCTTGGATTT TGATAGAAAT TGAGTTAAAT CTATAGATCA ATGTGTTGGA AATTGGCATC      300
TTAGTCTTCC AATTCATGAA CATAGCCTAC TCGAG                      335

```

## (2) INFORMATION FOR SEQ ID NO:1352:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

```

GAATTCGGCC TTCATGGCCT ACGTATGAGA CAGTGTATAT GACACTGTAT ATGTGTGAGA      60
CTGTGTGTGT GAAACACTAT ATGACACTGT ATATGTGTGA CACTGTATAT GACACTATAT      120
GTGGAGACTA TGTGTGAGAC ACTATGTATA TGTGACACTA TGTATGTGTG TGACACTGTG      180
AGAGACACTG TGAGACACCA AGACAGTATA TGTATGAGAC ACCCTGTGTG TGTGACACAG      240
CGTGTGACTG TGTGAAACAT GCTCGAG                      267

```

## (2) INFORMATION FOR SEQ ID NO:1353:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 202 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

```

GAATTCGGCC AAAGAGGCCT ACCCAGAACC AGTTATACTG AGGGTCCTGA GATCTGCTAT      60
AACATCACCA TCCTTTCAAC CCAGAGGTGT GTGTTTGTGG GCCATTCATT TGGCCCTCAC      120
CACATCCTGC CTTGTATTGC TAGTTTATCT TTTTATTGTC TTTGTTCTCC CCCAACCTCC      180
TGCGCCATAC AGACTCCTCG AG                      202

```

## (2) INFORMATION FOR SEQ ID NO:1354:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 285 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

```
GGTTTGATA TCCTGAAAGA TCAATGGGCA GCTGCAATGA CTCTCCGCAC GGTATTATTG      60
TCATTGCAAG CACTATTGGC AGCTGCAGAG CCAGATGATC CACAGGATGC TGTAGTAGCA      120
AATCAGACGA GCAAAAATCA AATTAAAGTA GATCTTGTAG ATGAGAATTT TACAGAATTA      180
AGAGGAGAAA TAGCAGGACC TCCAGACACA CCATATGAAG GAGGAAGATA CCAACTAGAG      240
ATAAAAATAC CAGAAACATA CCCATTTAAT CCCCTGATC TCGAG                      285
```

## (2) INFORMATION FOR SEQ ID NO:1355:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

```
GAATTCGGCC TTCATGGCCT AGTTATTTTC TCACTGTCTGC AAACAGCAGG CAAAGTTTGA      60
CGAGTGTGTG CTGGACAAAC TGGGCTGGGT GCGGCCTGAC CTGGGAGAAC TGTCAAAGGT      120
CACCAAAGTG AAAACAGATC GACCTTTACC GGAGAATCCC TATCACTCAA GACCAAGACC      180
GGATCCCAGC CCTGAGATCG AGGGAGATCT GCAGCCTGCC ACACATGGCA GCCGCTTTTA      240
TTTCTGGACC AAGTAAAGAT GGGTCCGTGG CCCACACTCG GTCATGTGCT CAGACAACAA      300
CTCGAG                      306
```

## (2) INFORMATION FOR SEQ ID NO:1356:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 297 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

```
GGAATGATGT CACTCACGTC CAGCAAAGCC AAAGAGCTGA AGGACCGGCA CCGGGACTTC      60
CCAGACGTGA TCTCAGGAGC GTATATAATT GAAGTAATTC CTGATACCCC AGCAGAAGCT      120
GGTGGTCTCA AGGAAAACGA CGTCATAATC AGCATCAATG GACAGTCOGT GGTCTCCGCC      180
AATGATGTCA GCGACGTCAT TAAAAGGGAA AGCACCCCTGA ACATGGTGGT CCGCAGGGGT      240
AATGAAGATA TCATGATCAC AGTGATTCCC GAAGAAATNG ACCCACAGGC TCTCGAG      297
```

## (2) INFORMATION FOR SEQ ID NO:1357:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 276 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

```

GTCCCGCTAA ACCGGCAGGC GATGAGAAAG GAAACCATCA CTAAGATGCT CTGGAGTACC      60
CGCACCTGT TGAATATCAC CAAGGAGCAG GTACCACTTG TGGTGGAGGA GTACCTGGAC      120
AATGTCAATG AGCATGACTG GAAGATGCTA CGAAACCGTA TGATGGACAT AGTTCAAGAT      180
GCCACTTTCG TGTATGCCAC ACTGCAGACT GCTCACTACC ACCGAGATGC CGGCCTCCCT      240
GTCTACCTGT ATGAATTGA GCACCACACG CTCGAG                                276

```

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

```

GAATTCGGCC TTCATGGCCT AGGGGAGCAT AAAAATACAA AAAACATTTG GCTTTATTCA      60
CAACGTATTT TGTGAAAAC CAGGAATAAC TCTTTGAATT TTGGGGAAAC CAACAACATT      120
CTCAAAAACG ATGATAATCA ATTTTATTGT GCACCTCTGC ACCCTGCCTC CATGGTCCCA      180
CCACCAGTT CCCTCTCCTC CACAGTCAGA AGTTCCTCCC TGCATTCAAA CACTGGGTCT      240
CGAG                                244

```

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

```

GCGATTGAAT TCTANACCTG CCTCGAGGAC CCAAATATTT CTTTGAGATC TTTCTTTCAA      60
TTCTTTTGGG CATATACTCA GAAGAGAGAT CATTGGATTA TTTTGTGTTT TTTCAGAAAC      120
TGCCTACCGT ATTCAAAGC AGCTGCACCA TTTCACATTC CCACCAACAT TGCATCAGGG      180
TTCCAATTTT CCCACATCCT TGTCAACATT TGTATGTTG TTTTGTGTTT TTTGTTTTTT      240
TTTGTTCGCG TTTGTTTTGT TTTGTTTTGT TTTGTGCACA CAGTCTCGCT CTGTTGCACA      300
GGCTGGAGTG CAGTGGTACA GATCTCAGCT CACTGCAGCC TCTACCTCTC CAGTTCAAGC      360
AATTCTCCTA CCTCAGCCTC CCCGGCTCGA G                                391

```

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

```
GAATTCGGCC TTCATGGCCT ACATTTTCTT CTTAGTATGG ATATGCTTAT TAATGCACTT      60
GTTTCAAAAT CCCAAATTGC ACAAATGTGT TAATATTTTA AGAAACAAAA TGAATCCTAC      120
AAGGAGAAATG ATTTTGTAGC ACACATAGGG TTGGATCTTG AGAGTGACCT ACAGAATAAA      180
AGTACTTTTA AAATAAAGTA GTCAGAGGCT ATTCAAAGGG TAAATAATC ATAGTACCAC      240
ATTGGTCCAC TTGACACTCG AG                                         262
```

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

```
GAATTCGGCC TTCATGGCCT AGACAACCTG AAAGTGGATG ACATGCTGAG TGAAGTCAGA      60
GACAAATGGG ATACCATATG TGGAAAATCT GTGGAAAGGT AAAATGTTCT TTAAGACAGT      120
TTGGTTACTC TGTAGACCTC TTTCAAATAC ACAGTAATGG TGCTTTGCGG GGACATTTTC      180
GGAACCTTAA ATATTTCTCT TGCCTGAGGA ACTTCTGCTT GTCCTAAGTA TCCACACAC      240
ATAGCACTCG AG                                         252
```

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

```
GAATTCGGCC TTCATGGCCT ACATAGCAGT ACACAGAAAC TCATCTTTGG TCTTAAACT      60
GCATAGGTAC TTAGTCCTC TGTGACAAA TGTGGGTTG TTTCAGTCTT CTGCTATCAC      120
AAATAATGCT GCAAAGAATA CATTGTTCAT TATGTCATT CATCCTTGGC AATTTTGCCT      180
CTGGAAAGTT CTAGAAGTC AGATTCCCAG GTCAAAGTT AAATGCGCAT GTAATTTTGC      240
TGGATATTGT TAAATCCCCC TACAGAGCAT GCACCACTCA GCATTCCCTT CAGCTCGAG      299
```

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

```

GAATTCGGCC TTCATGGCCT AGCGAGATCT GCGTGAAAAA TACAGCAATT TTGGCAATAA      60
CTCTTATCAC TCCTCAAGAC CCTCATCTGG ATCCAGTGTG CCCACCACCC CCACATCATC      120
CGTCTCACCC CCACAGGAGG CCAGGTTGGA AAGGTCATCA CCGAGTGGTC TTCTCACATC      180
ATCCTTCAGG CAGCACCAAG AGTCACTGGC AGCAGAGAGA GAGAGGCGGC GGCAGGAGAG      240
AGAAGAAAGG TTGCAGAGAG AGCTCGAG                                         268

```

## (2) INFORMATION FOR SEQ ID NO:1364:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 273 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

```

GAATTCGGCT TCATGGCCTA CCAACCCCCC CATTTCTCCC TTCCTCCAGC CACTGGCAAC      60
CACCATTTC A TGTTCTTTT GTTTGTTTGT TTTTGTTTT GTTTTITGTT TTTTGTATT      120
ATTATACTTC AAGTTTTAGG GTACATGTGC ACAACGTGCA GGTTTGTTC ATATGTATAC      180
ATGTGCCATG TTGGTGTGCT GCACCCATTA ACTGGTCATT TAGCATCAGG TATATCTCCT      240
AATGCTATCC CTCCCCACTC CCCCAGCTC GAG                                         273

```

## (2) INFORMATION FOR SEQ ID NO:1365:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

```

GAATTCGGCC TTCATGGCCT AATCGGTGTC TTTGGTAAAA ATTCTATGAG GATGACATAT      60
TCCATCATGT TATTCGTTTC ACATTTCCTT TTGCTCAGTC TCCAATGCAA GCACAGCTTG      120
TGGTATAACC TATTGTTTTT CCATTCTAAT AACTTCTCAA TCGATCTTCG TGTCTTTTA      180
CTGAGGCAAA TAACTGGCCA CATACTGCAA CCTAATGTGC AGCAGCAACA AAGGCAGCCA      240
CAAAGTAGCC AACGTACATT AACAGGAAGG TTCTTCTTAA GACAACTGTT AACTCTGTNG      300
ATGCTGGCTT TAAATTCTTC AGGAGCTACT TTTTCAGTTA ATGAAGAAGG GAATTCAGAT      360
TCAAAT                                         366

```

## (2) INFORMATION FOR SEQ ID NO:1366:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 245 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

```

GTTGTTAGGC TGGTGTGTT ATGTTGCTGT TGTTATGCTG GTCGTGCTGC TCCATGTTCT      60
CCAGGTGTTT TTCCCTTTTA TCGTCACAGT TACCCCGTAC ACCTGACAAC TGGACATCTG      120
CGCCTGGGGT CTTCAGCCTA AACACACCTA AACCCCTCCAC CAAACCCCTC TGCTTCCGCC      180

```

TCCCCGTGTC TGTGAGCGCC TCCACTGCCC ATCCCTCTGC TCAGGCCCA TTTCCAGGGC 240  
TCGAG 245

(2) INFORMATION FOR SEQ ID NO:1367:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 217 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GTATTTTGT GACTGAAGTC ACCTTCTAAA TAATTCTAG AATAAAATTT TTATATTGAA 60  
 GAAGTTGGTC TTAACCATTT TTTTTCAGG AGCATGCATT TTGAAATCAT TCTGTGGGAA 120  
 GATGAAAACA AATTAGTTC TATGTCTCCC CTTTITAGAG ATGTTGACAC TTTCTTAAA 180  
 TGTACCATGC ATGATTGTC TACCACCAG ACTCGAG 217

(2) INFORMATION FOR SEQ ID NO:1368:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 289 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GGCTAGAAGC AAGATGGCTG AACTCAATAC TCATGTGAAT GTCAAGGAAA AGATCTATGC 60  
 AGTTAGATCA GTTGTTCCTA ACAAAAGCAA TAATGAAATA GTCCTGGTGC TCCAACAGTT 120  
 TGATTTTAAT GTGGATAAG CCGTGCAAGC CTTTGTGGAT GGCAGTGCAA TTCAAGTTCT 180  
 AAAAGAAATGG AATATGACAG GAAAAAGAA GAACAATAAA AGAAAAAGAA GCAAGTCCAA 240  
 GCAGCATCAA GGCAACAAAG ATGCTAAAGA CAAGGTAGGG AGTCTCGAG 289

(2) INFORMATION FOR SEQ ID NO:1369:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 230 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GCGATTGAAT TCTAGACCTG CCTCGAGTGT TTTTITAAAA CTCTCTCTCT TCATGACAC 60  
 CAGGTGTTGC TATTAATGTG CTCAAATCTC TCACTTATAA AAAAGAATAA AACCTCTCTC 120  
 TTTTCTAGTT ACTGGTCTGT TTATTCTTTT GTAGAATGAT CTTTGGGAAG AGTGTTTCA 180  
 TTTATCCAG TCTCTCATC TTTTATTCCT TAGTGACTG TCATCTCGAG 230

(2) INFORMATION FOR SEQ ID NO:1370:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 254 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

GAATTCGGCC TTCATGGCCT AAACAAACAA AAAGAAGAAA ACACTCAACA AAACCAATCT	60
ACATGTTTTG GACTAAAAAA AAAAATAGAG GTTGTATTCT CAGTGTCGGA CTCGGAATTA	120
TGTTGCTGCC TCTCTGTGCT TTGGCCTCT GTGTGGCCGT GTTTTGCCAG CATGAGATAC	180
TGTCCCCTCT GGAGGATTT AGGGGAGGAA GAGCCACGTC CCCAGGGATT GGAGGAGGCT	240
CCGCACCCT CGAG	254

(2) INFORMATION FOR SEQ ID NO:1371:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 276 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

GAATTCAGCT ACACTTGAGT ATTAGGAAGC CATATAGAAT TCGCAGGGTC CAACTTCATA	60
GACTCTATTC ACATTATTAG AGTAGTAGTG GGGACCGTTA CTTTGGGAA AGGATCAGTG	120
AGACAGTATA AACTTTTGAA ATAATACATT TTTGTATTCC AGAATTATTA GATAATACTA	180
AAGCAAACCT TTTAATGGA ACATTTTGAA GTCCTGTGTA TTTATTTTAT TTTTATTATT	240
TTTGTGAGA CAGAGTTGCA CTCACGCACG CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1372:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 249 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

GAATTCGGCC TTCATGGCCT ACTCGAATCA TAGTGATTAA AATAGTTGGG GTAAAGTTGT	60
AGCTTATATG CAATACTACT TGGAGGAATT CTTCTACTAA TTTGTATTTA ATGTGGAAAT	120
TGTATAGTTT CATTGATTTA ATCATAAATA ATGGAAATGG TCTCCAAGAA GTTTTATTTT	180
TCATTTTTTT GCTTATACAC TCTGATTCCT ATAATACAGT GCTATAAGCT ATGCACAGAA	240
AATCTCGAG	249

(2) INFORMATION FOR SEQ ID NO:1373:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 218 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

CCCGTTGTCA ATCTTTGGGT TTTATTCCTT TTTAAGAAAG AAAGAAGTTC TGCTGAATTT	60
GGAAATAAAT TCTTTATTTA AACTTTCCTT CCCAGTTTTA TAGTTTCTGG TTCTGAGGAC	120
TGATGAAAT CATCTTCCAT CAGCAGATT TCTGCACTG TTTGCTGTGC CCCTCAAATA	180
TAATGTCTTG GGTTTTAAGA TCGAGCAGAG AGCTCGAG	218

## (2) INFORMATION FOR SEQ ID NO:1374:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GAATTCGGCC TTCATGGCTT GGGTCTCTCT TTCCCATTTG TGCTTCTTGT TCTCCAGAT	60
CTTCCCCAAA ATAAGCTCAG TGCCAGAAC TTGTGTGGCT TTGGGATATT CCACTGCCCCG	120
GGCAACAGGC AATCTCGAG	139

## (2) INFORMATION FOR SEQ ID NO:1375:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

GAATTCGGCC TTCATGGCCT AGCAAGACGC AGCAAAAGTG GAACTTCCAA GATACTAATC	60
TGAGAAGTTT TCAACAAGAA ACAGGTTTAG AATTAAAAAT CAAAACCTCT TTTAATTGTA	120
TTAAGAGTAA ATCATATTTT AAGACAACTT TCTTTTAAAA CAAGGGACCA AAATTAGAA	180
AGACTTTTAT AAATAATTTT AATTATAGCC AACTTAATCC CACACAAAT GCTTTTCATA	240
AGTATTCTCT CACAAACACT CGAG	264

## (2) INFORMATION FOR SEQ ID NO:1376:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

CTTAAACCCA GGAGTTAGAG ACCAGACTGG ACAATATAGC GAGACCTCAT TTCTAACCCC	60
CAAAAAAATA TACACACGCA CACACACACA CACAAACACA CACACACACA CACGCATGCA	120
AACTATATTA AAAAAACGGT CATGCTGCAT GGTTTTTTAT TTGTGTTATT TTTATTGTTG	180
TAATGTTACT TTATTTTCTA ATATTTTCTG TTTGCGGTTG GTGAATCCT CAGCTGTGGA	240
ACAGCTCGAG	250

## (2) INFORMATION FOR SEQ ID NO:1377:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

```

GAATTCGGCC TTCATGGCCT AATTTCCCT TCTCTTTTT TTTGGTTTT GGTTAATTTG      60
TAATTTTGGT TTCGTCCTGA TGTATATGGA CTGCCAGAAT AGGGGGGGTG GTGGTTTGT      120
CGTGGTGTCT GGGGGAGGAA GGAATCCTTA CCCTGGCTTC CTTAATCGGG GAAGGCTTCC      180
TGAAGGAGGT GGGCTCAGAG GTGAGTTGTG AATGAAGCGG GTAGGGAGTG GGCTGGGTGG      240
ATGTTTGGG GATGTTGGG GGAGGTGAGT AAAGGGTAAC TCGAG                          285

```

## (2) INFORMATION FOR SEQ ID NO:1378:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

```

GAATTCGGCC TTCATGGCCT AGAAAGAGCA AATATAATGA AGACTTTGAA AGAGCTTGA      60
GAGAAGATCT CACAATTAA AGATGAATTA AAAACATCTT CTGCAGTCTC CACACCATCT      120
AAAGTGAAGA CAAAAACGGA GGCCCAAGAG GAGTTATTAG ATACTGAACT GGACCTCCAC      180
AAGAGGCTGT CCTCAGGAGA AGACACCACA GAATTACGGA AAAAAGCTCAG TCAGTTACAG      240
GTTGAGGCTG CACGGTTAGG TATTTTACCT GTGGGTCGAG GAAAGACCAT GTCCTCTCAA      300
GGTCGAGGAA GAGGCCGAGG GCGTGGAGGA AGAGGAAGGG GCTCACTAAA TCACATGGTG      360
GTGGACCATC GTCCCAAAC CGAG                          384

```

## (2) INFORMATION FOR SEQ ID NO:1379:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

```

GAATTCGGCC TTCATGGCCT AGTCAGGAAC TCCAGTTTGC TTTCTGTTT TGTGTCCTGG      60
TAGCAGCTGT TGAGTAACCT TCATTGGAGG TTGGGAAGGA AGTGAGGAGA AAGTGTCTT      120
GTTTAGTGTT TTATTCCTA TAATAGGATG CTGCCTAACC CAGTTCATCT CTATGTCCTG      180
TTCAGTGAAT ATTCCGGGTA ATTGAAAGAA AATATAATGG ATGGGCTCCA TTTAAACCA      240
CTCAAAAATA AATTCTTGT AGTAAAGATT TCTTGTCAG ATGTCTTGA TTGCACTTT      300
GTTGAGGAAA GACAGTGTA ATAGTTAAAG AATGTTGATA AAATTGAAAC ATTTGGGCCT      360
TCATGGCCTA                                         370

```

## (2) INFORMATION FOR SEQ ID NO:1380:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 366 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

```
GAATTCTAGA CCTGCCTCGA GTTGCTGAAC GGTTTAGATC CTCAAAAAAT AAAGCAATTG      60
AACCTGGCCA TGATTAAC TA TGTNTGGTC GTCTATGGAC TTGCCATTTC TCTCCTTGGA      120
ATAGGACAGC CTGAGGAATT ATCTGAAGCC GAAAACCAGT TTAAGAGGAT TATTGAACAC      180
TACCCAGTG AGGGCCTTGA TTGCTTGGCC TACTGTGGAA TTGAAAAAGT ATATTGAAA      240
AAAAACAGAT TTCTAGAAGC TCTCAATCAC TTGAGAAAAG CAAGAACCTT GATTTATCGT      300
CTTCCTGGAG TGTAACTTG GCCCAGGAGT AATGTGATTA TTGAAGAGTC TCAGCCACCC      360
CTCGAG                                     366
```

(2) INFORMATION FOR SEQ ID NO:1381:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 472 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

```
GAATTCGGCC TTCATGGCCT ACTTTAATGA GATAGGAACT AGTATATTCA CCGTCTATGA      60
GGCCGCCTCA CAGGAAGGCT GGGTGTTCCT CATGTACAGA GCAATTGACA GCTTTCCCCG      120
TTGGCGTTCC TACTTCTATT TCATCACTCT CATTTTCTTC CTCGCCTGGC TTGTGAAGAA      180
CGTGTTTATT GCTGTTATCA TTGAAACATT TGCAGAAATC AGAGTACAGT TTCAACAAAT      240
GTGGGGATCG AGAAGCAGCA CTACCTCAAC AGCCACCACC CAGATGTTTC ATGAAGATGC      300
TGCTGGAGGT TGGCAGCTGG TAGCTGTGGA TGTCAACAAG CCCAGGGAC GCGCCCCAGC      360
CTGCCTCCAG AAAATGATGC GGTATCCCGT TTTCCACATG TTCATCTGA GCATGGTGAC      420
CGTGGACGTG ATCGTGGCGG CTAGCAACTA CTACAAAGAA GAAAACCTCG AG              472
```

(2) INFORMATION FOR SEQ ID NO:1382:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 424 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

```
GAATTCGGCC TTCATGGCCT AGAGTTTAAC CCAGAACTGG TGCTGGTCTC AGCTGGCTTT      60
GATGCTGCAC GGGGGGATCC GCTGGGGGGC TGCCAGGTGT CACCTGAGGG TTATGCCAC      120
CTCACCACCC TGCTGATGGG CCTTGCCAGT GGCCGCATTA TCCTTATCCT AGAGGGTGGC      180
TATAACCTGA CATCCATCTC AGAGTCCATG GCTGCCTGCA CTCGCTCCCT CCTTGGAGAC      240
CCACCACCCC TGCTGACCCT GCCACGGCCC CCACTATCAG GGGCCCTGGC CTCATCACT      300
GAGACCATCC AAGTCCATCG CAGATACTGG CGCAGCTTAC GGGTCATGAA GGTAGAAGAC      360
AGAGAAGGAC CCTCCAGTTC TAAGTTGGTC ACCAAGAAGG CACCCCAACC ACCCAACCT      420
CGAG                                     424
```

## (2) INFORMATION FOR SEQ ID NO:1383:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

```

GAATTCGGCC TTCATGGCCT AGGCAGCGGC CTCTGTCCCA GGCCCCGGGG TGCCAGCGTC      60
CTGCGAGCAC CCAGCTGACC AAAGATGTTT CCCTCTGTAG AAGACTCTGC TAGACTGGGT      120
CTGAAGCTTG AGTTTCTAA CAGGTGCTGC TGCACAGGTG GAAAGGAGCC GTGGGAATGT      180
GTGTGTGGCA CGGCCAGAC AAGGGCAGGG CTGAGGGCCT CCGACTCAGC TGGGGGTAGA      240
CGGGCTCGAA TGTGGCCTGG GAGAGCCTAG GGGGCCCCAG GGGTCTGCTT TTCTATGTGA      300
GCCTTTAAAC TTCAGACAGG CCACCACCCT GCACCTGCAG GGGCTTTGGC ACAGGAGTGC      360
TGGCTTTGGA GGGACTGTGG CCTTCATCGT GGTCTCTGTC CCACACCTCC ACGCACACAG      420
ACAGTGCCCT AGGAGGGAAA CAGAACTAAT TACGAGGGGG AGGCAAGAGG ACGCCAAGCA      480
AGGAGTGACT CGAG

```

## (2) INFORMATION FOR SEQ ID NO:1384:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 460 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

```

GCTCGAGAGT GGGGCGTGGC AGTGTGTGCC TGTAGTCCCA GCCACCTGGG AGGCTGAGGC      60
AGAAAAATTG CCTGAACCCG GGGGTGCGAG GTTACAGAGA GAGACTCTGT CTCCCCAAAA      120
AAAAAAAAAA AAAAAAAAAA NNGTCTAAGG GTTANACAAT TCTTGATATA ATCTCTCCAC      180
AATACATTCA GAAATCTACT TTGCTGTTG GAGTTGTATC TGAGAGCTGG GGAATTAAAA      240
ATTGCTGAAA ACAGATATAA GGGGAAAGTG AGATAAAAGC AGAAGCTGCC AAAAGGAGGT      300
ATTAGCATCA TCCTCAATTT ACACAGAATC ACATGCTAAG AGAGGCTAAG TATCTTTCCC      360
AAGATTACTC AGCCAAGTTG TGAAGCCAAG ATTTAACTGT ATCTATTCAA CTCTTATCTA      420
ATTATAAAAG CCTATGTTAT TTCCCACTGT GCTACTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1385:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

```

GCAGGAGTAT CTGAGGATGG AGAACTCAGC ATAGAAAACC CCTTTGGTGA AACATTTGGA      60
AAAATACAAG AAAGTGAAAA AACTCTTATG ATGAACACAT TATATAAGCT TCATGATCGA      120
TTGGCACAGC TTGCAGGAGA TCATGAATGT GGCAGTTCTA GTCAAAGAAC GCTTTCTGTT      180
CAAGAGGCAG CTGCGTATTT AAAAGATTTA GGTCTCTGAAT ATGAAGGTAT ATTAAACACT      240

```

```

TCATTGCAGT GGATCTTAGA AAATGGAAAA GATGTTGGAA TAAGGTGTGT TGGTTTTGGC      300
CCTGAGGAAG AATTGACAAA TATACTGAT GTGCAGTTT TACAGTCCAC AAGACCACTG      360
ATGTCTTTT GGTGTCGTT TCGACGTGCT TTTGTTACTG TAACTCACAG ATTATTGTTG      420
TTATGCTTAG GTGTAGTGAT GGTGTTGTGTC GTTCTGCGTT ACATGAAATA TCGATGGACA      480
AAAGAAGGGG AGGATCTCGA G

```

501

## (2) INFORMATION FOR SEQ ID NO:1386:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 377 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

```

GAATTCGGCC TTCATGGCCT ACTCCAAGAG GCAGTTCTAC ATCAAGATCT CAGACGTGCA      60
GGTGTTTGGG TATAGCCTGA GGTCAACGC CGACCTCCTG CGCAGTGCAG TGCAGCAGGT      120
CAACCACTCC TACACACAGG GCGCCAGTT CTATTCCTCT TCGTCAGTGA TGCTCCTCTT      180
GTTGGATATT CGGGACCGAA TTAATCGCCT GGCCCTCCT GTGGCCCCCG GGAACCCCA      240
GCTGGACTTG TTCTCCTGTA TGCTGAAACA CCGCCTGAAA CTGACCAACA GCGAGATCAT      300
CAGGGTGAAC CACGCCTTGG ACCTGTACAA CACGAGATC CTCAACAGT CGGACCAGAT      360
GACAGCCAAC ACTCGAG

```

377

## (2) INFORMATION FOR SEQ ID NO:1387:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 538 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

```

GAATTCGGCC TTCATGGCCT AGACGACGCC TATGAAGCCC TTAGTCCTTC TAGTTGCGCT      60
TTTGCTATGG CCTTCGTCCTG TGCCGGCTTA TCCGACATCA AAGGGATCAA AATTTAAGGA      120
GCTAGTTACA CATGGAGACG CTTCAACTGA GAATGATGTT TTAACCAATC CTATCAGTGA      180
AGAAACTACA ACTTTCCTTA CAGGAGGCTT CACACCGGAA ATAGGAAAGA AAAAACACAC      240
GGAAAGTACC CCATTCTGGT CGATCAAACC AAACAATGTT TCCATTGTTT TGATGTCAGA      300
GGAACCTTAT ATTGAAAATG AAGAGCCAGA GCCAGAGCCG GAGCCAGCTG CAAAACAAAC      360
TGAGGCACCA AGAATGTTGC CAGTTGTTAC TGAATCATCT ACAAGTCCAT ATGTTACCTC      420
ATACAAGTCA CTTGTCACCA CTTTAGATAA GAGCACTGGC ATTGAGATCT CTACAGAATC      480
AGAAGATGTT CCTCAGCTCT CAGGTGAAAC TGCGATAGAA AAACCCGAAG CACTCGAG      538

```

## (2) INFORMATION FOR SEQ ID NO:1388:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 406 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

```

GAATTCGGCC TTCATGGCCT ACCTATTTTC CATATTCCGT GTGACTCATA ATGTACTCCT      60
GCTGTTGCTG ACGGGCAGTG GTCGGTCAGA GCAGAAGCTC AGCTGTGATT GCTGGGGGAG      120
TTCTGAGCTC CATGAGCCAC TCTGGCCACG ACACCATCTT TACTTGAAAG AAAAAGTTCC      180
CTTTGATGCT GAGGCCTCCA GTGTCATAGA CGATGCCTTT GCCCAGCCAG GCGATGGTCT      240
GCGTGGCTCC ATCTGGGGTG TGGCTGAGGA CGGCCAGGGC TGGGGGATGC AGGGCGGCTT      300
TGCCAACCCC ATAGATTCTT CCAAATCCTC TCGTCTTCAG TTCCTCATCC CGGATGATGG      360
TTGGGATGAT CCCCAGCTCC TTTCCAATT TGTTAATCTC CTCGAG                        406

```

## (2) INFORMATION FOR SEQ ID NO:1389:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

```

GAATTCGGCC TTCATGGCCT AAATTAATC TAATGGGCAA TCATAAGAAT AATTGAAAAT      60
AAGGAATTCA GGGGAGCTTA ATTCATTGT AGGTTTTAGG TGATACCATT GCTATTCAGA      120
TTGCTTTGGG CAATTATGT AATTTTTTCC AATGACATCC AATTTTCATAT CACTGTAAT      180
GAAGAAACAG AAAATTTAGT TCAGATTTTA AATCATCATT CCCTGATGCC ACCTCATCCA      240
ATGATGTTTC ATAAACGATG AAATCACGTA AGAACCACCT AAACCAGGAC TGATAGTCTA      300
TTGCTAGAAA CTTGGAATAA TTTCCACTGA TTTCTGTTTT CACTGGAAAC AGAACAGAGA      360
CTCCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1390:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

```

GAATTCGGCC TTCATGGCCT AAGACCAAAA CTAAACTGAA ATTTAAAATG TTCTCGGGG      60
GAGAAGGGAG CTTGACTTAC ACTTTGGTAA TAATTGCTT CCTGACACTA AGGCTGTCTG      120
CTAGTCAGAA TTGCCTCAAA AAGAGTCTAG AAGATGTTGT CATTGACATC CAGTCATCTC      180
TTTCTAAGGG AATCAGAGGC AATGAGCCCG TATATACTTC AACTCAAGAA GACTGCATTA      240
ATTCTTGCTG TTCAACAAA AACATATCAG GGACAAAGCA TGTAACCTGA TGATCTTCGA      300
CACTCGAAAA ACAGCTAGAC AACCCAACG CTACCTATTT TTCTGTCCCC AACGAGGAAG      360
CCTGTCCATT GAAACCAGCA AAAGGACTTA TGAGTTACAG GATAATTACA GATTTTCCAT      420
CTTTGACCAG AAATTGCGCA AGCCAAGAGT TACCCAGGA AGATTCTCTC TTACATGGCC      480
AATTTTCACA AGCAGTCACT CCCCTAGCCC ATCATCACAC AGATTATTCA AAGCCCACCG      540
AGCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1391:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 178 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

```

GTTTATTTTC ATCATCTACA GAACCAAACCT CCCTTTCATG TGCACGAGTG AGAATCTCTT      60
TGTACAGTGT TTCTGCTTGC TTGAACTTTC CTTGTTTCAA ATAGCAGGAT GCCAGGTTAT      120
TTTTCGTCTT AGCCACGTTG GGGTCATCAG GTCCAGTTT TGTCTGGTAG ATCTCGAG      178

```

## (2) INFORMATION FOR SEQ ID NO:1392:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 329 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

```

GAATTCGGCC AAAGAGGCCT AGGGCCCTAT ACCTCCAGCC GTGAATGCCA GACTTTAAGA      60
TTGCCCGGAG GAAGCAAACCT CTTCGTATAA AAAAAGCAGG CCATCTGCTT AACCCTTGGC      120
TCCACCATAA GGCAGTGGGA CTCGGATTTC TCTATCTGAT AGAGGTATTT TCTGTGGCCC      180
TGGGAGCTGT CTGTCTTTCC CCTACCCCCA AGGATGCCAG GAAGACGTCC ACCATTAGCC      240
ATGTGGCAAC CTTTACTTCT ATGCCTCACA AGTGCCTTTC AGAGAGCCCC AATTCTGCTT      300
TCCCACAAAA TAAACCCAAT GCACTCGAG      329

```

## (2) INFORMATION FOR SEQ ID NO:1393:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

```

GAATTCGGCC AAAGAGGCCT ATTCCTTTCC TTTTCCCTTT GAGATTTTTT TGTGTTGTT      60
TCCTTTTGTG ATTTTACTGA TATCACCAGG ATAGTTTACT CTCCTTCTAG CTTTCTGCTT      120
ACCGCACACT GGATAACACA CACATACACA CCCACAAAAA TGCTCATGAA CCCAATCCGG      180
AGAAGGTTCC AGCAGGTCCC CCACCTCCC CTCCTCCTCC TACTTCTCCT CTTGACAGCG      240
AGGACAGGAG GGGGACAAGG GGACACCTGG GCAGACCCGC CGGNTCTCCC CCCACCCAC      300
CCGCCCCCTC GCATCATACT CGAG      324

```

## (2) INFORMATION FOR SEQ ID NO:1394:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 462 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

```

GAATTCGGCC AAAGAGGCCT AACTGCAACG GAGAGACTCA AGATGATTCT CTTTTACCC      60
ATGTTTTCTC TACTATTGCT GCTTATTGTT AACCTATAA ACGCCAACAA TCATTATGAC      120

```

```

AAGATCTTGG CTCATAGTCG TATCAGGGGT CGGGACCAAG GCCCAAATGT CTGTGCCCTT      180
CAACAGATTT TGGGCACCAA AAAGAAATAC TTCAGCACTT GTAAGAACTG GTATAAAAAG      240
TCCATCTGTG GACAGAAAAC GACTGTGTGA TATGAATGTT GCCCTGGTTA TATGAGAATG      300
GAAGGAATGA AAGGCTGCCC AGCAGTTTGG CCCATTGACC ATGTTTATGG CACTCTGGGC      360
ATCGTGGGAG CCACCACAAC GCAGCGCTAT TCTGACGCCT CAAAAGTGGG GGAGGAGATC      420
GAGGGAAAGG GATCCTTCAC TTACTTTGCA CCGAGGCTCG AG                                462

```

## (2) INFORMATION FOR SEQ ID NO:1395:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 515 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

```

GAATTCGGCC AAAGAGGCCT AGAACTGCCA TCATGAGGTC TGACAAGTCA GCTTTGGTAT      60
TTCTGCTCCT GCAGCTCTTC TGTGTTGGCT GTGGATTCTG TGGGAAAGTC CTGGTGTGGC      120
CCTGTGACAT GAGCCATTGG CTTAATGTCA AGGTCACTCT AGAAGAGCTC ATAGTGAGAG      180
GCCATGAGGT AACAGTATTG ACTCACTCAA AGCCTTCGTT AATTGACTAC AGGAAGCCTT      240
CTGCATTGAA ATTTGAGGTG GTCCATATGC CACAGGACAG AACAGAAGAA AATGAAATAT      300
TTGTTGACCT AGCTCTGAAT GTCTTGCCAG GCTTATCAAC CTGGCAATCA GTTATAAAAT      360
TAAATGATTT TTTTGTGAA ATAAGAGGAA CTTTAAAAAT GATGTGTGAG AGCTTTATCT      420
ACAATCAGAC GCTTATGAAG AAGCTACAGG AAACCAACTA CGATGTAATG CTTATAGACC      480
CTGTGATTCC CTGTGGAGAC CTGATAGCTC TCGAG                                515

```

## (2) INFORMATION FOR SEQ ID NO:1396:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 406 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

```

GAATTCGGCC AAAGAGGCCT AGTCCTTCAC TAGACTATAT GCATTTTATC TTACCTTATT      60
CCTCATTTTA GTGTCCAGTG GCTGGCGTGT ATAAACCCTG AATGTTTTTA AAGATAATAT      120
TTTTAAAGAT CACTTTAGTT ATAATACGGC TTCAGTTGGT GGAATAAAGA AATTTTTTTC      180
TTTTTTTTTA TTTTGAGTAA AAATGATAAC TTCTCTCCAC CCTCTCTATA GTTAAAGCCT      240
TCCATCTGAA GTATGATGAA GTTCGTCTGG ATCCAAATGT TCAGAAATGG GATGTNACAG      300
TATTAGAACT CAGCTATCAC AAACGTCATT TGGATAGACC AGTGTTCCTA CGGTTTGGG      360
AAACATTGGA CAGGTACATG GTAAAGCATA AATCGCACAT CTCGAG                                406

```

## (2) INFORMATION FOR SEQ ID NO:1397:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 299 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:



GAATTCGGCC AAAGGGGCCT AAGAATAGCA AATATCTTGT GCTTAGCAAA AAATAATCTT	60
GAAAAATTTT TCTGAAATAA ATGTTATTGA AAAATGCAAA TAATTAGAAT TAAATACCAG	120
CTGCAGTTCT ACATCCTCTT ATTGGCCAAT GTAAAGAGAA ATCAGGCATG TTAACGCCAA	180
AAAAGGACAA TTCAACAACA TGGAAACCAT GACTAATATA TGGAGAATAC AAAGAAAGAC	240
TAAAGATTTA GATCAGGCTA ATTCTTTT ATTCCCATCA AATCCAAGTA CCACTCGAG	299

## (2) INFORMATION FOR SEQ ID NO:1398:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 368 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCGGAC AAAGAGGCCT AGGAGAGGCG GGAGCCTGGG AGAGCCTCTG CTAGACCTTT	60
CCTGGCCTT CCCCAGGAAA GGCAAGGCAG GGCAGATGTG CGGCTGGCCA GCTGGAGTGA	120
TTTCCATGGG CTCCAAGCTG TAGGAGTGGT CCCTGGCTGC CAGAGTGCTC TGGCCAGATA	180
CAGGTGGGCT CTGACTGGT GAGGCTGCAT TGCGGAGGCG CGCACACCCA GCTGGGCCCT	240
TATCTGTAAG GACTGGCTGG CCTGGGAGGG GCAGTCTCCC ANCCAGAANG TGGAAATTTT	300
TTTTTTTTTT TGAGATATCA AAACATCCTA AGGTACAGGA AAGAAATTGT CNACACACAC	360
GGCTCGAG	368

## (2) INFORMATION FOR SEQ ID NO:1399:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 149 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCGGCC AAAGAGGCCT ATTTTTTTGG AGATGTTGAT CAGATGTTCA CTGATAAACT	60
TGAGCCCCCT TTTCTTCCTC TGGTCTACCC ATCTAGAATG CTATGACCCA TCTCAGACAC	120
ACCCCTCTGG GAAGCTGCCT GAGCTCGAG	149

## (2) INFORMATION FOR SEQ ID NO:1400:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 599 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCGGCC AAAGAGGCCT AGTCGATGGA GATAAGTGTT TTAATTACTT TTTAATGTC	60
TGTGCTTTTG TATTTTTCTC CTCTCTTCC TTTTATTCC TGCTGNGAG ATTACTGCCT	120
CATCTCCACA GCAGGTGGCT GTTGCAAATT TGTCTCTTT GTAAGCCTGG AAGATTATT	180
TTGTAATATA ACTGTTCCTT TTTAGTATT TATTATTAAT GATTCTTTA CTTTGGGATA	240

TAGTGTACTT ACACAGTCCT AACAGTAAT TTCCTAACAC TATCTAAGAA CTCCAATCAT	300
TAAGAAAAAA AATCTTTGCC TGAGGCGTAT TGTGAGAT TTTTGCTTAC CCTTACTTCA	360
CAATGCGGGG ATTAAATTT AAGGAAATTG TTTTATAGCA AAAGCCAAAT GAGAAAAAGA	420
AACAGAGAAA ATAGAAGGGA GGGAAATAAA GAAAAGGAGA AGAGAAAAGG CTCAAGAGAC	480
AAAGTATACT TTAATAAATA ATACCATAAA GCAGAGTAAT GAGGATAAAT TTATGGCTGA	540
AAATGAAAT TACATTAACA TCTTTTCTAG AAATGTTTCA ACTAAACCAA ATGCTCGAG	599

## (2) INFORMATION FOR SEQ ID NO:1401:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTCGGCC AAAGAGGCCT ACAGTCACCC TATAAATAG ATTAAGTGTT CCGAGTTCGG	60
TTGGGTTTTT CGCAATTAAA AATTGTGTTA ACAGTTTAGT GTTCTTACA GATAACACTG	120
ATAACACTTT TTGTTTTTCA TTGGGTCTTA TCATTGGTAC AGACTGATCC AAAAATCCAA	180
TTGGCTTGCT AGTAATTTTT TCCTGTGAAT TGCTAAGATT TATGGGTAAA TTAATTTTTT	240
TTTTTCTTTT CTTTTTTTTT TTTTAAAGCA TTGCTCCTT AAATGCAAAT CGTACCACTA	300
AGATCCTCTC ACAACAGATT AAGGTGGAAT TTGCAGAGAC ACTCGAG	347

## (2) INFORMATION FOR SEQ ID NO:1402:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTCGGCC AAAGAGGCCT ATATAAATC AACTTTTCTT TGTCTCTCTT GCCTGTGATG	60
AGTAACAGAA ACCATCTTCC CAGAACTAT CCCCACCCAC CCCCAGCCCA GCCCGAGCAG	120
CCCAGACCCA GGAAGGAGGT CAGAGCCTGC GTGACTGTGT GGCAAGGATC CCCCTCAAAG	180
CAGGCAGTGA TCCCCCTCAA AGCAGGCAGT GATGACCAGG CTCCCCAGGG GAAGGAAAAA	240
TGGTTGATTA CCCACCTCA CTTTCTCAAG TTCCTGAAAG CCTCCCATCT TTTCAGGATG	300
TTTTCTTCTT GCTTCCTTTC TGGGGTGATA TTGCAATGCA TGTGTCAGTC CCTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:1403:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTCGGCC AAAGAGGCCT AAGGATTGTC ATAGCCAGGA CCACACTATT GCTTTTTTCAT	60
AACATTTTCT TTTTGTCTCT TTCTTTTGAA TTTCTTACAG GGCTGCAAAG TATGCCAGGG	120

GAGTATGTAG CCCGGGGTGG TCCAATGGGT GTGAGTATGG GACAGCCAAG TTATACCCAA	180
CCCCAGATGC CCCCCCATCC TGCTCAGCTG CGTCATGGGC CCCCATGCA TACGTACATT	240
CCTGGACACC CTCACCACC AACTCTCGAG	270

## (2) INFORMATION FOR SEQ ID NO:1404:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 129 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

GAATTCGGCC AAAGAGGCCT ACAGCCTTTC TTCCCACTTT TAACTATAGA ACTTGCTTTT	60
AATTCACCTG ATATATGGAC ACAGTCAGAC GAGAACTCCT TCATGCTCCT ATTACCACAG	120
CTACTCGAG	129

## (2) INFORMATION FOR SEQ ID NO:1405:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 229 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

GAATTCGGCC AAAGAGGCCT AATTGCTTAA GCTCCTCAAG TTCTTTTAT TAAGAGTTGT	60
AAGTAAATTA TAATAAACAA TAACATAGTC TCTGCTATTT TGATCCTTGC TCTTTGCCAT	120
GCTGTTTTAC TTATTCTTTA TTGCATGTTT CACATCTATC AATTTTGGGA TATGCTTCTC	180
ACCTTCCCTA CTAAATGTG AGCTCCGTAA ACGCAACAGC TACCTCGAG	229

## (2) INFORMATION FOR SEQ ID NO:1406:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 398 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

GAATTCGGCC AAAGAGGCCT AGTGGAGGTA TTTTGAAAAT ACAATTTAAC TACAACAACA	60
TTTGCTTATT TTTAGAGTCT TTTATGACAT CAAGAGAAAT GATCCCAGAA AGAAAAAATC	120
AAGAAAAAGA ATCTGATGAT GCCTTAACTG TGAATGAAGA GACTTCTGAG GAAAATAATC	180
AAATGGAGGA ATCTGATGTG TCTCAAGCTG AGAAAGATT TCTACATTCT GAAGGTAGTG	240
AAAACGAAGG CCCTGTAAGT AGTAGTTCTT CTGACTGCCG TGAAACAGAA GAATTAGTAG	300
GATCCAATTC CAGTAAACT GGAGAGATT TTTTCAAGATC ATCCATGGAA AATGATGACG	360
AAGCCACAGA AGTCACCGAT GAACCAATGG AACTCGAG	398

## (2) INFORMATION FOR SEQ ID NO:1407:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 131 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

```
GAATTCGGCC AAAGAGGCCT AGTAAAAGTG TCTGATCTGA AACATAATAC CCTCCCTTTT      60
CAATCCTGAT GTACCTTCTT CTAGTCTTGG TCTTTGGCAC CTTTTTTTCA AGAAGAAACC      120
ATACTCTCGA G                                     131
```

(2) INFORMATION FOR SEQ ID NO:1408:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 622 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

```
GAATTCGGCC AAAGAGGCCT AAGTCCAGGC TGTAGGGTCC CTGGTCACAG AGGACCCGGG      60
TCACCCGGGA CTCATCTTTC ACTTATTGTT TTTCAAGTCC AGGGCCCCAT GGATGCCACT      120
GAGATGATTT CAGATGTTAC AGTCATCAAG AGGGATTGGG GCCGCATTCT GCCTCATTCC      180
TTGGCTTTTG AAATCAGAGA CGACATTTTC ACTTTAAACA AACCCAAACC ATTCCTGCTG      240
GTGGAGGATT TCTCCTGCAT CTCGGGGGTG GATTTTCACT GATTTATGTC TGCAGCGTGA      300
GCAGTCTCTG GGCTTTTCTG CAGCTCCAGA TGTTAGATGT TTTATCTCTC CGTCTTTTAT      360
CNGCTTCAGT CTTTGCCCCA GTCTATCCTC GCATGCTCCN TCCTNNGGGA GGGCTTCCTG      420
TCTTCACAGC CGCACCTTCC TCCCACTGCT ACCAGTGCCA TGGACCCACT GTATGTTTCC      480
TGGGGGCCAT GCAGAAAGTC CCCAGACCAG TGCTGGCCTG CGACAAATAA GTACAGAAAT      540
GGAGAATAAC CCCTTTCAA CACATAATAG CATTGATAG AATCAATCAG GAGACTCAAG      600
TTTTTACTGC GTGCGTCTCG AG                                     622
```

(2) INFORMATION FOR SEQ ID NO:1409:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 328 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

```
GAATTCGGCC AAAGAGGCCT AGAACATGCA GATTTTTCCT CTAGAAAACC CCCTCCCCAC      60
ATTCAGCTTA TTAGAAATCC TTAACAGCAG GTAACCACCA ATGCTCCTGC CTTCTAGCCA      120
CAGTCTGCTC CTGCCCTAC AGGCTTTGAA CATGCAGATT TTTCTCTAG AAAACCCCTT      180
CCCTGCATAT TCTCTCCTCT CCCCACTCAC ACAAAACACCT GGCCTGCCAG GCCCCGTGGG      240
GCTGCCGGGC TTCTGTGAAC CTGCCGCCCTG CCTTGGAGCT TCGGCCTATG CCTCTGCCCG      300
CCTTACAGAG CCTGGATCCA AACTCGAG                                     328
```

(2) INFORMATION FOR SEQ ID NO:1410:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 324 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

```
GAATTCGGCC AAAGAGGCCT NNAAAAAAAAA AAACCAAAAA AAAAGAAAA GCTGACACAG      60
TTCTCTGAAA AAAGCCTAGA GAACACAAGG GTGACACAAA CTCCAGAGAG TATGCTGCTT      120
GCAGCTTTGA TGATTGTATC AACAGTGGTA AGTCACCCCA TGTCTGCAGG AGCAGCTGCA      180
GCTAATTATA CCTACTGGGC CTATGTGCCT TTCCCACCCT TAATTCGGGC AGTCACATGG      240
ATGGATAATC CTATTGAAGT ATATGTTAAT AATAGTGCAT GGGTACCTGG CCCCATAGAG      300
GATCGTTGCC CAGCCCAACT CGAG                                     324
```

(2) INFORMATION FOR SEQ ID NO:1411:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 323 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

```
GAATTCGGCC AAAGAGGCCT AGAAGTTGAG TGAAGGAGAA AGAGAGGGAA GTAGAAAAGA      60
GGAGAAAAAT GTTAAGCAAA AAAGGTATTT TCCCTTGGAT ATTAAGTTGC ATATCTGAAG      120
AAATGGCATT CCGGACAATT TCGTGTGGT TTGGAGTATT TATTTGTTCT ATCTGTGTGA      180
AAGGATCTTC CCAGCCCCAA GCAAGAGTTT ATTAAACATT TGATGAACTT CGAGAAACCA      240
AGACCTCTGA ATACTTCAGC CTTTCCACC ATCCTTTAGA CTACAGGATT TTATTAATGG      300
ATGAAGATCA GGAACAACTC GAG                                     323
```

(2) INFORMATION FOR SEQ ID NO:1412:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 149 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

```
GAATTCGGCC AAAGAGGCCT AGTTAGTTGC TCTCCTTTT TCTTTTTTTT GTCGTGCATA      60
TTTATTTCT GTAGTTTCTG GTTAGCTACC CTAAAGTGAT TTAATAATT AGAATGCTTT      120
GTGTTTCCTA TTTGGTAATC AACTTCGAG                                     149
```

(2) INFORMATION FOR SEQ ID NO:1413:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 308 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC AAAGAGGCCT AATAAGAATT ACTTGTAAC TTAGGGGGCA TTTAGAATTA	60
TATTTGTCTT ATTTGAGATT TGGATTTAAA TTTTATTTTA GAGCATTTT TAAAAAATAA	120
ATAGAAGTGA GGCTAATATT GTTAATTATT CTCTTTAAAA AATACAGTAT TTGCTTTGGG	180
TTAAATTTT CTGCCCCAAC ATCATTATCA AGAGTCAGCA TATTACAATG ATAAATTTAG	240
CATTACTGT GTGGCAGGCA TTGTTCTATA TACTTTATTC GTTAAATTCA CCAGCGAACA	300
CGCTCGAG	308

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC AAAGAGGCCT ACTCAGAGCT GTTACGACTA GTCAGAGAGA GCGAGGTGGC	60
TGGTTCATGT TTGCAGATAG AGACCTCACT GTGTGGTGGG CTTCCCCACT TCCTGCTGCC	120
TTCATCCTGA TGGGTGGCTG CCTTCATCCT GATGGGTGGC AGCCTTGCCC TGCAGTGGGA	180
GACCCAGGTA ATGTAGTTTT TTGTTTGTG TCCCTGATCT CTTCTTGCA TTTTGGCCG	240
GCAGGTCTCG AG	252

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC AAAGAGGCCT AGTGATTCAG AACCATTTGA TAATAGCTTG AAAGCCTAGA	60
TNGACTCTCT GCATTGCCAC CCTCCCTAT TCTCTTAAGC CCACTCCATT CAGCTGTGCA	120
TCCACACCAC TCGGCCACCA ATTCACACT GCCAAATCCA GTTCCCAGTT CCTCATCGTG	180
TTTATTNGCA ACATTGAAA CAAGTGATCA ATCCCTTTTC CATGAAAAAC CTTCTTTGCA	240
CAGTTTCCAG AATTCTAAAC TTTCCTGTT TTCCTCCTAC TTCAACTTTC CAATTACCGT	300
CCCTCATTTT TACCTCATCA GCCCAACTCG AG	332

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

```

GAATTCGGGC CAAAGAAGCC TACAANAAAN TATATATATN TGGATCTTCT GAAAAGTTTT      60
TTGAGGTGCA AGTTTCTCT CTTTTTTTTT TTTTTTTTTT TTCTCATTGA TTAATGGACA      120
TGATGCTGAG ATTCAATCAC TACATGAAAC ACCTGGCTGT GAAAACAAAA CAACCCAGAG      180
GGCTGTGTTT CAAGCAGCGC TGGGGAAGCT ACGTAACAGT CGGATGCCAG TTTTGGGAAGA      240
TTCACCATGC GTTCTGACCC TCTGTTTCGTC TCTTCTCTCT CCTCTTCTT CAAGAAGGAA      300
ATTGATCCTA GTGATTTTCT CCCATGCATT AAACAGGAAA CTCGAG                      346

```

## (2) INFORMATION FOR SEQ ID NO:1417:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 128 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

```

GAATTCGCCA AAGAGCCTAA GGGCAAGCAG CATTATATA TCATATGACT TCTACAATA      60
AAATGAAGCT ATTAGCACTA GTATTTAGTA ATCTAGTAAC TCTCCTTCCA GCCCTCTTCA      120
CCCTCGAG                                         128

```

## (2) INFORMATION FOR SEQ ID NO:1418:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 385 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

```

GAATTCGGCC AAAGAGCCTA GGAAGCGCT CTTACGGCA CTGGGATCCG CATCTGCCTG      60
GGATCATCAA GCCCTAGAAG CTGGGTTTCT TTAAATTAGG GCTGCCGTTT TCTGTTTCTC      120
CCTGGGCTGC GGAAAGCCAG AAGATTTTAT CTAGCTTATA CAAGGCTGCT GGTGTTCCCT      180
CTTTTITTTCC ACGAGGGTGT TTTTGGCTGC AATTGCATGA AATCCCAATG GTGTAGACCA      240
GTGGCGATGG ATCTAGGAGT TTACCAACTG AGACATTTTT CAATTTCTTT CTGTGCATCC      300
TTGCTGGGGA CTGAAAACGC TTCTGTGAGA CTTGATAATA GCTCCTCTGG TGCAAGTGTG      360
GTAGCTATTG ACAACATCAC TCGAG                                         385

```

## (2) INFORMATION FOR SEQ ID NO:1419:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 425 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

```

GAATTCGGCC AAAGAGCCCT AGTAGGTTTA TAAACAGAAG TTAAACTTG TAAGCTTAAG      60
CTTCCGTTTA TAAACAGAAG TTTAAAATTA TAGGTCCTGT TTAACATTCA GCTCTGTAA      120
CTCACTCATC TTTTGTGTT TTTACATTT GTCAAGATT CTTTACATAT TCATCAATGT      180

```

```

CTGAAGAAGT TACTTATGCA GATCTTCAAT TCCAGAACTC CAGTGAGATG GAAAAAATCC      240
CAGAAATTGG CAAATTTGGG GAAAAAGCAC CTCCAGCTCC CTCTCATGTA TGGCGTCCAG      300
CAGCCTTGTT TCTGACTCTT CTGTGCCTTC TGTTGCTCAT TGGATTGGGA GTCTTGGCAA      360
GCATGTTTCA TGTAACCTTG AAGATAGAAA TGAAAAAAT GAACAACTA CAAACATCC      420
TCGAG                                     425

```

## (2) INFORMATION FOR SEQ ID NO:1420:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 264 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

```

GAATTCGGCC AAAGAGGCCT AAGACGCATG CCTGTAATCC CAGCAACTCG GGAAGCTGAG      60
GCGGGAGAAT CGCTTGAACC CGGGAGCGGA GGTGCGGTG AGTTGAGATG GCGCCACTGC      120
ACTCCAGCCT TGGCAAAAAG AGCAAACTT CATCTCAAAA AAAAAAAG AATGTGTGGA      180
ATAATGGGGG TTTTTCCTT ACTTTGTGG CTTATTCTCA CTTACATGGG GATAGCCTTG      240
GTCTTTGACT TGGATAGCCT CGAG                                     264

```

## (2) INFORMATION FOR SEQ ID NO:1421:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 144 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

```

GAATTCGGCC AAAGAGGCCT AAGTGAATCG ATGTTCTGGC TTGGCTGTCT TTGGTGTGTT      60
CATTCTTTCA TTTCTTCTC CCTGTCCTCA TCTCTCTCTC CCCGTGCCCT GCTCCCTACA      120
CCTATCCCTC CCCCTACCCT CGAG                                     144

```

## (2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

```

GAATTCGGCC AAAGAGGCCT AGAGAGAATA AAATACATAT AGTTGATTAA AGGAAGGAAG      60
TTTATTACTT AGGGAAAAGG AAGGTAAAAA AAGACCCTAA GCAATAAAGG CAATTCTTTT      120
TTAAGCAGAA TACTTTCATT TTATTTCATT TTGTTTACC AGTGTGTTA CGAAAACTGC      180
TGCTGGGGCT ACTTCAGCTG AGATGATTG GCTCTTTTTT GTGGCTTTCT TCTTGTCTG      240
TACATCAGCA CTGTGGTTAT TACACCAGCT ACCAAGTCAT CTCGAG                                     286

```

## (2) INFORMATION FOR SEQ ID NO:1423:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 157 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

```

GCGATTGAAT TCTAGACCTG CCTCGAGACA GAGCAAGATT CCGTTCCCAA GAAAAAAAAA    60
TTGTTCAACA ATAAGGGCAA AGGGAGAGAA TCATAACATC TGATTAAACA GAAAAAGCAA    120
GATTTTAACTA ACTAATAATA TAAGGATGCA TCTCGAG                                157
  
```

(2) INFORMATION FOR SEQ ID NO:1424:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 408 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

```

GAATTCGGCC AAAGAGGCCT ACTCAAAGA CAAAAAGAT ACATTAGGCA GTGTTCTGTA    60
AACATGGGAA AATTATTTTA GGTAAATGG GCTGAGAAGA AATTGCTAA ATTTTGCTTT    120
TGTTACCACG TTTCCTGAAA TGATGATAAT AAATAATATT TAAAAGGGT GAATAGAAGG    180
ATCTTTATTG TAGGTACTGG TGTTAAATTT TAGGTTTACA AATAATACTG TAAAGCTACT    240
TTCTTTACAC AGATTACAC ATTTATCTTC TTGAATTATT TAATAATGAA TGTCAAAAAA    300
TTCGAAATCT CATATAAGAT CTCACTTTGA AACAAAGTAT ATAACTGTT GATTGCACAA    360
TTTGGGTTTT GTGAAGCAGT CAGTTTGTAC TATAAGTGGC AGCTCGAG                                408
  
```

(2) INFORMATION FOR SEQ ID NO:1425:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 468 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

```

GAATTCGGCC AAAGAGGCCT ATTCTGTCT CTAAGAATA ACTGTGCTTG AAGAAGAAAA    60
TTCCCAACAT GGACAAACCA CGCAAAGAAA ATGAAGAAGA GCCGCAGAGC GCGCCCAAGA    120
CCGATGAGGA GAGGCCTCCG GTGGAGCACT CTCCGAAAA GCAGTCCCCC GAGGAGCAGT    180
CTTCGGAGGA GCAGTCCTCG GAGGGAGGAG TTCTTTCCTG AGGAGCTCTT GCCTGAGCTC    240
CTGCCTGAGA TGCTCCTCTC GGAGGAGCGC CCTCCGAGG AGGGTCTTTC CAGGAAGGAC    300
CTGTTTGAGG GCGGCCCTCC CATGGAGCAG CCTCCTTGTG GAGTAGGAAA ACATAAGCTT    360
GAAGAAGGAA GCTTTAAAGA AAGTTGGCT CGTTCTCGCC CGCAATTTAG AGGGGACATA    420
CATGCAGAA ATTTAAGCAA TGAGGAGATG ATACAGGCAA CTCTCGAG                                468
  
```

(2) INFORMATION FOR SEQ ID NO:1426:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

```
TTTGACCAGA TTATTCTTCT ATGCTTTTTT GCAATAAATC AAATCCCACA TATCTACAAG      60
TGGTATGAAG TCCTGCACCC CCCAGGAGGC CTGTCCAGGC ATGTCTTCAG AGGCAGGGTG      120
GGTTACACTC ATTTACCTCC CCTCTCCCCA CCAAATTATG ACACAAACGA GTATGTTTCC      180
TCTCTAGAAC CCTGTAATGC CTCCTCCCCC ATCCCCAGAG CTCCTTACTG TAGGTCTTAC      240
CCTGGACAAG GATTTTTTCA AGTTGGAGGC ACAGAACATG AGCAATCTGA CATTCCCACA      300
GGCCTCGAG                                     309
```

(2) INFORMATION FOR SEQ ID NO:1427:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 501 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

```
GAATTCGGCC AAAGAGGCCT AAGTGAGGAC AGGGCAAAGA TTTTATAGTC TCCTGTAAAC      60
AGGAAGTGTC CTAGTCTGAC GTAAGTGCTA CGTTGTACCT GGATGGCCTC TTTCTTGATC      120
TTCACGGGTA CGTGTCTTCC AGCCAGGGTA GGTGTCTTCC GGCCGGCTTT CTTCTGCTT      180
CTGCTATTTT GCTGGCCAC ACTGCTGGCG CAAGGCTTGC GCCTTGGTAC TGGGCCTGAG      240
AAGGGAGGAG TTATTCATCC CCTTAAGCTT TCAGGCCCCA GGGAGAATCT TACACTACTG      300
GGCTGCATTT CCAGACAATT AGGGCATTCT AAGGCACAGG ATGAGGTAGG AGGTCCGCAC      360
AAGATACAGG TCATAAAGAC CTTGCAGATA AACAGCTTG CAGTAAATAA GCTGGCCCAA      420
ACCCACGAAA ATCAAGATTT TGACCAGAGT GACCCCTCTG TCATCCTCAC TGCTACTCTC      480
CCACCAGCAT CACGACTCGA G                                     501
```

(2) INFORMATION FOR SEQ ID NO:1428:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 135 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

```
GAATTCGGCC AAAGAGGCCT AGACCTTGTT TAGTGTGTA AAGTTCTTCC AGTCTCGGAA      60
TGGTAAGGAA TTTATGCATG CTTACTCCAT TTTCAATAAG AAGTTTACA AATGCAACTC      120
TATCCATTAC TCGAG                                     135
```

(2) INFORMATION FOR SEQ ID NO:1429:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 245 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

```
GAATTCGGCC AAAGAGGCCT AGGGGCAGCG AATGTTTTTA GAAGCAGAAA ACTTTC AAAA      60
TTTGGTGA AAA GACATAAAATT TACAGATTTC AAGAAGCTCC ACAAATTCCA AATATGATAA      120
ATATGAAGAA ACTCATAGCA AGGATGCTAT ACCACACACT TCTGAATAAT CCACAGGTCA      180
AAGAAGTCAG ACTCTCCGGT CTGACATGTA AAGGGCCTGG AAGTCGTAC TCCCATCCTC      240
TCGAG                                         245
```

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

```
GAATTCGGCC ANNAGAGGCC TAAGAACTG GAAGTGCCTT TCATCTCCTC CCCCACCTAA      60
CTCCCCAGAA TTAATCACAA ATACTTTTGT GTGTATATTG TTCTGGAAAT TGTAATGTT      120
TAAACAAATC TACTAAGGTA TACTCTTCTG AAATTTTCCT TTGAAAATTT AGTTTATAAT      180
TTGGATTTAT TTCTTGATGA GCACATGCTA AACTCATTCC ACCCTTTTTT GATGAAAATT      240
ATTACATGTT TATTAATATA TCACATTCCC TCCCTCCCTG TCCCTTTTTT CCCCATAAA      300
ACACAATACT GTCAACTCGA G                                         321
```

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

```
GAATTCGGCC AAAGAGGCCT AGTGTGAGAC ATTTGTCATT GCTCAGAATT TTAAAATTGC      60
ATTCCAAGCT GTTGGATT TG AGTTTAAGTG AGGCCAAACT GGGGCGAGAT CAAACACACC      120
ATCAAAGAAT TACACACATA TCCTTGTGGC CACATCGCTT TTGTTGTTTG TTTCAGGAT      180
GCTGTGTGTG TTACTAGGGT TAAGACTCTT CTCCTTGGCT GAGGGATCTC CTCTGGAGAT      240
TTTGAAAACA GGAAACAGAT TTCTCTCTCC CTCCTCTGGT AGTCTTCCTA TTGCTGTTAG      300
AAACAATCAA CTCGAG                                         316
```

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC	AAAGAGGCCT	ATAAAAATGC	AAAAAATCCA	GTCTAAATAT	TGTCTATAGT	60
TTTTTAGGAT	TATAGTGTA	TCTGCTCTTT	TAAGTTATGT	ATCTCTACAG	CCTGCCACCA	120
TATAAGCTTT	TAATTATAAA	ATTATGATGC	TTGACATTGG	GGAGAAAGGA	ACATAAGCAC	180
CCATAATGAG	TCATTTTGT	TGACTGTATA	AATGAGTCAG	AGTTACATGT	AAGGATGAGA	240
ATATCCTCCT	ACAATTTTGG	TTTTTGATCT	TGATTTTTC	CCATTGACTC	TCTTTTCTCC	300
CCGCCATTCT	CTCTCTTGCA	CGTAGCACAC	TTTTGCGCTC	TGTCTGCTAT	TACTGCTATT	360
ATAAACCTTT	TACTGGACTT	CAGTTGTAGT	GACCATTAGG	TCCTAAACAT	AGAAGTAAAG	420
GCGTAAGTGG	ACTTTAATAG	AATACTTATT	AATTTTAATA	ACTAGAGTTC	ATAATTTAGA	480
ATTAATATAT	GAGAATTAC	TGTATAATCC	TCGAG			515

## (2) INFORMATION FOR SEQ ID NO:1433:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 304 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

GAATTCGGCC	TTCATGGCCT	ACTGCTTTTT	TTTCTCTTTT	TTCTTTTTC	CTTTTGACTT	60
TTGAGGCTCC	TGTTCTTTGG	CAGCACCAGC	TCCTTCTATT	TCTGCAGCCA	AGGCATCAAG	120
ATCAATGTCA	TCCTTGGTGC	TGTCTTCGCT	CTTGTTTTTC	TGTTTCTCC	CCATTGCTTG	180
TCAATGGCGC	TCGTGGCCCC	AGCCCCCTTA	TTCCGGTCTCT	CACAGACCCA	CTGTCTCCCG	240
GCTGACTTTG	GTCTCCGCTC	AGCTCTTTTC	CCCTCGTGCT	GCCGCCGCTC	GCACCCGGCT	300
CGAG						304

## (2) INFORMATION FOR SEQ ID NO:1434:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 291 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

GAATTCGGCC	AAAGAGGCCT	AGAATTTATG	TAATCCCAGG	GTGGCTACCT	ATTTTCAGTAG	60
TATCCCCCTC	GGCTCAGTTT	TAAATTTATT	TTAGAAGCTT	GGATTTCTCC	CTAAGAGTTC	120
AAATTTTCCC	AATTATATTT	GGCTTCCAGT	TGACTTTGAT	ACTGGAATTC	TCTGCCAGGA	180
AGGAGTGAGG	CCATCATGTT	TCCACTTATG	CCATCAGTGG	CATCTCTGAT	ATTTTGCCAC	240
GTGTTGCCCC	TGTACAGCCC	TGAGGTGTTG	GGCAGAGGAG	GCCAACTCGA	G	291

## (2) INFORMATION FOR SEQ ID NO:1435:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 422 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

```

GAATTCGGCC AAAGAGGCCT AAGACCCCCC TCAGCCTCCC GGAGTGCTGG GATTACAGGT      60
GTGAGCCAAT GCATCCAGCT GACTTTTGGG CTCTATCTTG AGGTAGCTGG GAGCCACTGA      120
CATATGTCAA GCAAGGGATT GACATGATCA GATTATTATG TAGAAAGGCC AGTCGCTCTG      180
TCTACAGTGT GGAGAGTGGA TTGGGAGGCA GAATGACCAG TCTGGAGGCT ATTATAGTAA      240
TCCAGGTTAC AGATGGGGGT AATGAGACCT AGGCAGGTAA TAGCGTGGCT AGAAGGAATG      300
GATAGATTCC AGAGACATTT GGAGGTGAAA TCAGGGGCTG GCGATTTAAC TGGGTATGAA      360
TAAAGAGGTA GAAAGAAGAT TTGAGGATGA TGCTCAGCAT TGAACAAGAG GGTAGACTCG      420
AG                                                                                   422

```

## (2) INFORMATION FOR SEQ ID NO:1436:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 142 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

```

GAATTCGGCC AAAGAGGCCT AAGCTAGTTA TATGTTATTC TGGGAAAAAA TATTATTGT      60
AGTTATTGCT ATCATGAAAA ATAAAAATTT ATGTGTCCTA AATTTAATTA TATTTTATGA      120
AACATTAACC CTGACACTCG AG                                                                                   142

```

## (2) INFORMATION FOR SEQ ID NO:1437:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 263 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

```

GAATTCGGCC AAAGAGGCCT ACGTACATTT ACTCTTTATA CATGTTTTTT TTGTATGTCA      60
TACCTTTTACA GTCAATTATTC TTCTTGATGT TCATATCTCC CCATCTTTGG CCAGTTAGAG      120
CATTTCOAAG TGAGCTCCTG TGTCTTTTGA ACAAGACCCC AGTAATCGTT CTGCTTTTGA      180
ATAGAATAAG ATGTTTGAGG ATTCTTTTAT ACAACTTTAC CCTAGACCTG AACTCAGACA      240
TCTCTCCAAG GAGCGAACTC GAG                                                                                   263

```

## (2) INFORMATION FOR SEQ ID NO:1438:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 467 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

```

GAATTCGGCC AAAGAGGCCT AGCAGCCTCT GCCTCCCGGG TTCAAGTGAT TCTCTGCGCG      60

```

CAGCCTCCTG	AGGATCTGGG	ATTACAGAGG	CTATTTGGAA	GCTCCAGACT	GTTTAGAAGA	120
CCTGGACAGC	CAGAAAGTCA	TTAGTCCTAT	CCAAAATGAA	GCAATTGTG	CAGGAAAAAC	180
AGATATTTTA	TGGAAGAACT	GTGAGTTTCT	GGTAAATCGA	ATGTGCCGTC	TTGAAAGCCT	240
CATGCAGTCC	TTGAAGATGA	ACATCTTTCG	GCTGCAAACT	GAAAAGGATT	TGAATCCTCA	300
GAAAACAGCT	TTTCTGAAAG	ATCGACTGAA	TGCAATACAG	GAAGAGCATT	CTAAGGACCT	360
GAAGCTGTTG	CATCTCGAAG	TTATGAATTT	GCGCCAGCAA	CTGAGAGCTG	TAAAAGAGGA	420
AGAAGACAAG	GCACAAGATG	AGGTGCAAAG	GTTGACTGCC	CCCTCGA		467

## (2) INFORMATION FOR SEQ ID NO:1439:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 103 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

GAATTCGGCC	AAAGAGGCCT	AGGCAGATCT	GGCAACTTTC	ATATCTGATA	TTATGTTACT	60
GAAACTAATT	TTAGGTCGCT	TTGCATCTCT	CTGTGCCCTC	GAG		103

## (2) INFORMATION FOR SEQ ID NO:1440:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 465 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

GAATTCGGCC	AAAGAGGCCT	ACATNTTTGA	ATCTTAACT	GNNTTTTTCT	CTTAGTATTG	60
CTAATGAGTA	AAGAAAAGTC	TCATAAGGTA	GCCAAATGAA	AAAGAATGAA	AGGGAAAGTG	120
AAAAATTAAG	GGGACNAAAG	ATGGGATGTG	AAAAGAAGAA	TTCTAGTTTG	ATGGTGACTC	180
ATATTCACGA	TAGGATACAA	AGTGTGATT	GTGGAAACA	TGTCCCAAAT	TTCTAAAAAT	240
CTGCTTCTCT	GCCAAAAGCA	ATGTCTTCT	TGGTTGATAT	TTGAGTTTTA	AAAGGGTCAA	300
ATCTTTCTAA	TTTTTTGTAT	CTNNAGAGGG	CAGCACTAGA	AGAAATCAGC	AGGTCTAATC	360
CCACCAGTAA	GAAAACATACC	ACTTCTTGAT	TTTACAGAT	TTAAAAAAT	CTTTTCAGTG	420
ACCTTTCTTT	TTAATGTAAA	TACAAATTTA	AACCTTAGGC	TCGAG		465

## (2) INFORMATION FOR SEQ ID NO:1441:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 336 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

GAATTCGGCC	AANGAGGCCT	AGAATTATAC	AGGTAGAGAT	GTATGCAGAT	GTGTCCATAT	60
ATGTCCATAT	TTACATTTTG	ATAGCCATTG	ATGTATGCAT	CTCTGGCTG	TACTATAAGA	120
ACACATTAAT	TCAATGGAAA	TACACTTTCG	TAATATTTTA	ATGGTATAGA	TCTGCTAATG	180

AATTCTCTTA AAAACATACT GTATTCTGTT GCTGTGTGTT TCATTTTAAA TTGAGCATT	240
AGGGAATGCA GCATTTAAAT CAGAACTCTG CCAATGCTTT TATCTAGAGG CGTGTGCCA	300
TTTTTGCTT ATATGAAAT TCTAATCCCT CTCGAG	336

## (2) INFORMATION FOR SEQ ID NO:1442:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 119 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC AAAGAGGCCT ATGATTTTGA GACATCCAGA AAGCAAACCT TAACTGTCTG	60
TGAGGTACAG AGACTGGATG ATGTTAAAGA AAACCATAGT TGGACACAAG ATACTCGAG	119

## (2) INFORMATION FOR SEQ ID NO:1443:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 214 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC AAAGAGGCCT AGAGAAATTT TAAAAAGCAT AGTTGAGGCA TATTTTTC	60
TAATTATATA CTTATCTGTT TATTGCCCAT GGAAAATATA TGTGTAGAAG TATTTCTTCT	120
GTTATTGTGTT ACTATCTTCT TAATTTGTTC CAAAGAAAAT GCTGCCATAC TGCATTCCCT	180
CTGGAAGGAA ACAAACAAA ACAAACTCT CGAG	214

## (2) INFORMATION FOR SEQ ID NO:1444:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 499 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTCGGCC AAAGAGGCCT AGGAAAGGAA AAATTAAAAA CCTAGATCT CTGGTACACA	60
TAAGTCTGGG TTGCGATTG CTATTGTGC TGGGGCAGTG TGATTGAGAC TGACATTGAG	120
GAAAGAAGCA GCTATGAAGA CCAGGGGGTT CAGCTTTCCA AGACAAAGGC AAGTCCTGTT	180
TCITTTTCTT TTCTGGGGAG TGTCTTGGC AGGTTCTGGG TTTGGACGTT ATTCGGTGAC	240
TGAGGAAACA GAGAAAGGAT CCTTTGTGGT CAATCTGGCA AAGGATCTGG GACTAGCAGA	300
GGGGGAGCTG GCTGCAAGGG GAACCAGGGT GGTTTCCGAT GATAACAAAC AATACCTGCT	360
CCTGGATTCA CATACCGGA ATTTGCTCAC AAATGAGAAA CTGGACCGAG AGAAGCTGTG	420
TGGCCCTAAA GAGCCCTGTA TGCTGTATTT CCAAATTTTA ATGGATGATC CCTTTCAGAT	480
TTACAGGGCC GAGCTCGAG	499

## (2) INFORMATION FOR SEQ ID NO:1445:

## (1) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GAATTCGGCC	AAAGAGGCCT	AAAATTTGAT	TAGAAATGCA	AGACTGGATG	CCAAGATTGA	60
TTCTAAATTA	GGTCATGTGG	TTATGGGTAA	CAATGCAGTC	TCACCCTATC	AGCAAGTGAT	120
TGAAAAGACC	AAAAGCCTTT	CCTTTAGAAG	CCAGATGTTG	GCCATGAATA	TTGAGAAGAA	180
ACTTAATCAG	AATAGCAGGT	CAGAGGCTCC	TAAGTGGGCA	ACTCAAGATT	CTGGCTTCTA	240
CTGAAGAACC	ATAAAGAAAA	GATGAAAAAA	AAACTATCA	AAGAAAGATG	AAATAATAAA	300
ACTATTATAT	AAAGGGTGAC	TTACTCGAG				329

## (2) INFORMATION FOR SEQ ID NO:1446:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 607 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GAATTCGGCC	AAAGAGGCCT	AACAGAGGAA	ACCACCCCTC	AACTGGAAGA	TATCATTAAA	60
CAGAGGATAA	GAGATCAGGC	TTGGGATGAT	GTAGTACGTA	AAGAAAAACC	TAAAGAGGAT	120
GCATATGAAT	ATAAAAAGCG	TTTAACCTTA	GACCATGAGA	AGAGTAAATT	GAGCCTTGCT	180
GAAATTTATG	AACAGGAGTA	CATCAAACTC	AACCAGCAAA	AAACAGCAGA	AGAAGAAAAT	240
CCAGAACATG	TAGAAATTCA	GAAGATGATG	GATTCCCTCT	TCTTAAATTT	GGATGCCNTC	300
TCAAACCTTC	ACTTTATCCC	TAAACCGCCT	GTACCAGAGA	TTAAAGTTGT	GTCAAATCTG	360
CCAGCCATAA	CCATGGAGGA	AGTAGCCCCA	GTGAGTGTTA	GTGATGCAGC	TCTCCTGGCC	420
CCAGAGGAGA	TCAAGGAGAA	AAATAAGCT	GGACATATAA	AAACAGCTGC	TGAAAAAACA	480
GCTACAGAAC	AACTCGAGGT	GTGGGGAAAA	GAAAGAGAGA	TCAGATTGTT	ACTGTGTCTG	540
TATAGAAAGA	AGTAGACATA	GGAGACTCCA	TTTTGTTCTG	TACTAAGAAA	AATTCTTCTG	600
CCTCGAG						607

## (2) INFORMATION FOR SEQ ID NO:1447:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

CTGCTGCAGC	AATATTCAGA	TTGAAAAAAA	TAGGTTTGGG	TTCACTGAGT	TTAAAGGGAT	60
GATGATAAAA	AGGAGGTTCT	TCTTCCTCTT	CATCCGAAAC	ATGAGGTTTA	TTCACTATTA	120
CATCATCATC	TTCTTTACTC	TGTGCGATCT	GTTTACATTT	CTCAGTTAGT	TCTTCTATAG	180
TAGCTCCTCC	TGACTTTTTA	GCAACTTTCT	CTTCTATAGT	AGGTGGAGGT	GCAGGCTTTA	240
GGTTTGGTGG	TAAAGGGACA	CCAGCCTTAG	CACACATGGC	AGCTGCATTA	GCTTTGGCTA	300
TTTCAAGTAA	TTGAGCCTTA	TCCAAATCTG	TCAGACGTTT	GGGTGATCTG	CCTCGTTCAG	360



AAGACCTGGA TCTTTTACGA CGGATGGGAG ATCTGCTAAA CCTTCTTCTT AAGGGTGTTC 420  
 TTGATCGCCT TAATCTGACT GGTGAGTAGG CCTCTTTAGC CGAATTC 467

(2) INFORMATION FOR SEQ ID NO:1448:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 128 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCGGCC AAAGAGGCCT AGACACTTAT AGGCTTTTGA AGAAGCATTG ATCAATTGTC 60  
 AAACCTTAGTG CTACATCAGA CTGTGGAGCG TATTCATGTG GGCAAAAAAT ACGGTGATAT 120  
 TCCTCGAG 128

(2) INFORMATION FOR SEQ ID NO:1449:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 314 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GAATTCGGCC ACNGAGGCCT ATTTAAATGA AAATNATTTG AATGTTTAAAT ACTCTTCCCT 60  
 TCTTCAATTG TAGAAACATT ACCCTTTTGC ACTATCTCAT CACTATTGTG GAAAATAAGT 120  
 ACCCCAGTGT TCTCAATCTA AATGAAGAAT TGCGAGATAT TCCTCAAGCT GCGAAAAGTAA 180  
 ACATGACTGA GCTGGACAAA GAAATAAGTA CCTTGAGAAG TGGCTTGAAA GCAGTAGAGA 240  
 CAGAGCTGGA ATATCAGAAG TCTCAGCCCC CACAGCCCGG AGATAAGTTT GTGTCTGTTG 300  
 TCAGCCATCT CGAG 314

(2) INFORMATION FOR SEQ ID NO:1450:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 432 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GGAATTCGGC CAAAGAGGCC TAGTGGTTTT CCCAGGAGGA AAGAGAGCTG CAGGGATACA 60  
 GATGCCTTCC TGAGCAGAGA AAATAGAATA CTGAGCCAA TTTTCATGTA AAATGGATTA 120  
 TTTTCCTGGC GTTTCCTGTC CTTCAAGTAA AAGGTTCTGG AATGAGTACT TCACTGCTGT 180  
 AATGGAGACA CTAATATTTT ATGAATGCAG TTTTACAGTT TGCAGTAATG CCAGGCCTTT 240  
 GGCTGTTTTT CATTAGATGG TGCACTTGGC TGGAAGCATA TACTCTTGTA GCTTTGATTT 300  
 TAAATTAAAC TTTCAAGTTG AAAGAGCAGT GACTCATCCA AAGGACAGGT GATATTTATT 360  
 TATTTTCTCT TGAAATGCA GCACGGGTAT GTTGTTATCA CACGTTTAGG GGAATTGCCA 420  
 CACTTCCTCG AG 432

## (2) INFORMATION FOR SEQ ID NO:1451:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 463 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

```

GAATTCGGCC AAAGAGGCCT AGGATTGAAC GCTTTCACCC TGTGCCCCGC GCCTGGCGTA      60
ACGCGTGGCC CCAGACCACA CGCTGTAACC CGGGGTGAGA GGGAGTGAGG TGGGACTTCG      120
TACCGGACCC GGAGCGCCCG CCTCGCCCGC GCGGGCAGCG TTCCTGTGG GGAGTGCTCA      180
CTCAGCCTAG GCGGGCCCGG GAGGACTGCC GGGAGGAGGG AGTCGGCCTT GAATTGAGGC      240
CTCAGCCTTG AATAGGCTAG GGAGGCAAGC CTAGCCGAGA GTTTAGCACT AGCAAAAGCC      300
TGGAGGCACC AGGGTCTGCC CTAAGAACTG CAGCGCCTCT GCTCTGGCTG GGATTAAACG      360
CATTACGTCT CTGCTGTTTA TAGGTGTTGT GTTGGTCTT ACGACTTCGT ATTCTATAGT      420
TTTTATTAT TCCTGTTTTT TGAATTTTCC CACTTGCTC GAG                               463

```

## (2) INFORMATION FOR SEQ ID NO:1452:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 407 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

```

GAATTCGGCC AAAGAGGCCT AATGCAAGTC TGGACCGTTT AAAAGCTGGT AATTAAACAC      60
TTTATTCCAT ATCAGAATAA AAGTCAACTA GTTGAATATT TCTAGGTGAG ATGTGGTACT      120
ACTTTTTTTT TNGCTGTTAT TTTATGCTG TATCTAAAAT ATCTTACTGC ACTCTTTTTT      180
CAGGTTGCAG CAGATCCTTG AGTTTGAAC CTGACGGGCA AATCAGAGCT TCTTCCTCAT      240
GGCAGTCGGT CAATGAGAGT GGAGACCAAG TTCTAGTGGT TCCTGGCCAA GCCCGACTTC      300
AGGACCAAGG CCCATCATGG GCTTCGGGCG ACAGTAGCAA CAACCACAAA CCACGAGAGT      360
GGCTGGAGAT CGATTGCGG GAGAAAAAGA AAATAACAGG ACTCGAG                               407

```

## (2) INFORMATION FOR SEQ ID NO:1453:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 368 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

```

GAATTCGGCC AAAGAGGCCT ACGGCCAAAG AGGCCTATAG GCCTCTTTGG CCGGAAATCA      60
TGGTGTTATA GATCAAAGA TAAAGTTTC ACAGAAGAGG TGGGATTGA ACTAAGCTGT      120
TCATGCTCAG TAAGATTAGA GGAGGTGAAG CAAATGGGGG AATGTGTGCC AGAAGAGGAC      180
AGGTGCAAAG ATAAGCACTG GTGCTTGATC TTGACTGAAT TTTCAACCAA ACCAGCTGAC      240
TCTCAGGATA GTTGAAGGTC ACTTCTGCT GTTTAAAGAA AGATTCTAAA GTTACTTAAG      300
AAATATTGG CAAAAGACTC AAAAGGAAGG ATTCCAATTA CAATATAAAT AAAGTAAGAA      360

```

ACCTCGAG

368

## (2) INFORMATION FOR SEQ ID NO:1454:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 618 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

```

GAATTCGGCC TTCATGGCCT ACCGTGCTCT ATGCTGATCC TTTTCTCGT GAGAAAACGC      60
TGGCCTGTTA TTATTAGCTA AGGTCACACC CGCTGGGCAG CTCCTGGGAT TTTTGGATTC      120
CTCCCCACTC CAGAGGGAAG GCTATTTCTA GTGGCTTCTT TTCTTTGAGT CCTCCCTTCT      180
GTCTGTCTCT CTCCTGTTCC TCCTCTTAC CAGTAGGGCT TCCTCAATGC TGACAGCCCT      240
GTGAAAAAAG GGGAGACATG CCGAGCTCCG GCAGGAAACT GCTGGCCCAG GACCTGGCTT      300
CTGGGGCACA AAGGAGAATT TCTGTGTTTG GAAAAGTACA GACTGAGCAG GTGACCCCCG      360
CACAGCCCCT TGGGGGAAAC ACTTGTCGCC TTTGAGTCTG ACTGATATAA ACACAGACTC      420
TCTTGACTGT CCCATAAAGG CCAAAGCCAG AGAACCTCAG AAAGGGACTT GCAAATTGTG      480
AGTGAGGCAT ATCAGCTGGT GCTTCTTTT CTCTGTGGGC TGCCATTTAT GAATCTCTTG      540
GTTTCTCTCT GTCTCTGTCC CTCCACTTTT CTCTCCTTTG CTGGTGTGTG CATTCCCTCT      600
GACGCGCTGG CTCTCGAG                                     618

```

## (2) INFORMATION FOR SEQ ID NO:1455:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 312 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

```

GAATTCGGCC TTCATGGCCT AGCCTTTTGT AAACCTCAGGA AAGACAAAGG TTCAATTACA      60
CCACTTTTGT CAATAAGCAA ACCAGGTATT TTTTCTTCTT CCTGTGTCTT GGATATGGCA      120
ATAAATTTT TAAATTGCTG TGAGAACCCA TATATGAAAA GAGAGGAGTT GAATTGTGTG      180
TGCCTTTTAT GTCTTGAGAT TTATATGTGG AAAAGACGAC ATCTACTTCA AACTGTATTT      240
TTTTCGTTTT TTTTCTTTT TGGGGAAGGG GGGAGAACGG GGTCTTGCTC TGTCGCCCCAG      300
GCTGAACTCG AG                                     312

```

## (2) INFORMATION FOR SEQ ID NO:1456:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 415 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

```

GAATTCGCCT TCATGGCCTA GCTTAATCTT ACAGTCATTT AAAATAATTT CAGAAATGTT      60
CCTTTCATAC CATTGTCTCC ACCCCCAAAC CAGCTTACTA AAAATGGCTT AGGATTTGTT      120

```

TTCAGTCCTT CCTCTTCCTC TCCCCTGCTC CCAGACAAGG GTGTGTACTC AATACTGTAT	180
TCAGAAGTTA CTTGGGTTAG TTCTTTTTTT CCGATCTTTC AGTGTGATTA TTTTATTCAT	240
TTGAAATACA ATTGGATTCA TTCGTTTCCG TATGCTTTCA GTTTTAGCTT TTTTCCACTA	300
TCTTTGTTGA TATAATTGCA TTTTTTGATA GGGGGATATT AATATACTTC ACAAAGTCAG	360
AATAACATAA GGGTTTACTC AGATGTAACC TGTTATCTTA GCCCGTGATC TCGAG	415

## (2) INFORMATION FOR SEQ ID NO:1457:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GAATTCGGCC TTCATGGCCT ACATTTTCT ATTGATATAA AAATTGTTAG AGAAATATAC	60
AGTTGTATAT TTCCCCCTT TATACAGAAA TTTTACAATA ATTTCAGATT TTTCTGAGTT	120
TTTTCAGATT TTTGATTCTA TAATATGAGA TTATCTTTC TTCCTCTTAT TTTTITAGGT	180
TATTTATTTT TTCTTTTCTT TTTAATTGTC TCATACAGGT TTAATCTCGA G	231

## (2) INFORMATION FOR SEQ ID NO:1458:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTCGTGT CATATTTTAA AATGTTCTT TTTTCAACA TTCAGCAAAA TATTATGTGC	60
TAGGAACCTC CCCAGACGCT TGTTAACATC TATGAATACA ACAAAGATTC TGCCCTCCTG	120
GGCCTCTTTT CTGATGGGGA AGCAAAAATC TCGAG	155

## (2) INFORMATION FOR SEQ ID NO:1459:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

GAATTCGGCC TTCATGGCCT AGGTGACTAA GTACAAAAAA ATAGTTTCT CATGTATTTC	60
AAAATAGTGA GTAGGTTCCC TGGATAATAC ACAGTGGTAG TTGACATATT TTCTCAAAC	120
ACAACCAGAA AACCCTTTC CGGTATTGT AAATCACCTT TCAAGGGAAA AAGTGAACAC	180
GTATTCCTTG TATTTCTAGT TTGATTACCA AACCTGATGT TACAAAGAAA CCTCCGTTCT	240
GTAGACAGAA TTTCTTTTAT TTTCTTCTT TTAATCTCA CAATCACTT CCCAGTGCCA	300
CCACCGCTCG AG	312

## (2) INFORMATION FOR SEQ ID NO:1460:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 459 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

```
GAATTCGGCC TTCATGGCCT AGTCTCCCTC GGCTGTGCC GCCGCCGACG CCGCTTGTGG      60
GCCCGACTCC GCTCTGTCTG CTTCGCCACC TTCTCCCCGA GCACTGCCCG GCCGGCCGCC      120
ATGGCTAAGC TGGCTGACAC GAAGCTGTAC GACATCCTGG CGTCCCGCCC GCGCCAGCG      180
AGAACGAGCT GAAGAAGGCA TACAGAAAGT TAGCCAAGGA ATATCATCCT GATAAGAATC      240
CAAATGCAGG AGACAAATTT AAAGAAATAA GTTTTGCATA TGAAGTACTA TCAAATCCTG      300
AGAAGCGTGA GTTATATGAC AGATACGGAG AGCAAGGTCT TCGGGAAGGC AGCGGCGGAG      360
GTGGTGGCAT GGATGATATT TTCTCTACA TTTTGGTGG GGGATTGTTC GGCTTCATGG      420
GCAATCAGAG TAGAAGTCGA AATGGCAGAA GAACTCGAG      459
```

(2) INFORMATION FOR SEQ ID NO:1461:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 511 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

```
GAATTCGGCC TTCATGGCCT ACGAGATCAA GGACAAGAGG CAGCTTATAG ACAACCGCAA      60
GCTCATTGAG ACGCAAATGG AACGGTTCAA AGTTGTGGAA CGAGAGACCA AAACCAAAGC      120
TTACAGCAAA GAGGGCCTGG GCCTGGCCCA GAAGGTAGAT CCTGCCCAGA AGGAGAAGGA      180
AGAGGTTGGC CAGTGGCTCA CGAATACCAT CGACACGCTC AACATGCAGG TGGACCAGTT      240
TGAGAGTGAA GTGGAGTCAC TGTCAGTGCA GACACGCAAG AAGAAGGGCG ACAAGGATAA      300
GCAGGACCGG ATTGAGGGCT TGAAGCGGCA CATCGAGAAG CACCGCTACC ACGTGCGCAT      360
GCTAGAGACC ATCCTGCGCA TGCTGGACAA TGACTCCATC CTCGTTGACG CCATCCGCAA      420
GATCAAGGAC GACGTTGAGT ACTATGTTGA CTCATCCCAG GACCCCGACT TCGAGGAGAA      480
CGAGTTTCTC TACGATGACC TGGACCTCGA G      511
```

(2) INFORMATION FOR SEQ ID NO:1462:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 130 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

```
GAATTCGGCC AAAGAGGCCT ATTTGTTTTG TGGTTTTAAA ATTTTCTCTT CGCATAAAGG      60
GTAACATCTT GCAACTTGAT TCTTTCACCT CATGATATGC CTTAGATTTC TTTCTTCCC      120
AATACTCGAG      130
```

(2) INFORMATION FOR SEQ ID NO:1463:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 379 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:

GAATTCGGCC	AAAGAGGCCT	ACTTGTNAAG	TGCTTTTGAA	TTAATAAAAT	ATTAGCATAA	60
TTGTGNTAG	TCAGTTGAAC	CCACTGTTAC	CAITGTTCTT	ATCCCATGGG	AAGCAGTTGG	120
TTACACGATT	CTTATTTTAT	AAGAAACAGC	TGAGAGGCAC	TATGGATTAG	TCTTCTGAAG	180
TGAAGGAAAT	ATAGATGTCT	CCTAAGTGAT	AGTTAACCCT	TTTTTTTTTT	TTTtagGCAT	240
AGAAGCCAGT	TCAGGGTCCA	TAATATTTAG	TGACCAACAT	TTTAAAGTAT	AGCAGCAACC	300
TGGTTCTTAA	ACACAAAGTA	AGTTGCCCAT	TAACAAATGG	CTTTTATCTT	TAGCATGAAA	360
ACTTCCACA	CGTCTCGAG					379

(2) INFORMATION FOR SEQ ID NO:1464:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 354 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

GAATTCGGCC	AAAGAGGCCT	ANAANAACT	TTTTCTTGGG	AGCAAGGTAG	TTATTTCAAA	60
GCACAGAAA	AGGCGGCGGG	GGGCACAGAG	AAGCACAGAG	AAGCGGGGGC	AGTTGCACAG	120
GTAAGACATT	CATCTTGGCT	TTTCTTTTAA	AAAGATAAAC	TTTGTCACAC	GTAAGAGGGA	180
ANACTGCATA	GATATTCATT	GAGATTATCT	GATTGTCTAC	TGTTGCCAAA	GAAAAACAA	240
AGGTAAATA	CACGAGTTTC	NNCATTGAGA	AGAAAGTATT	TCAGGTAAAA	ATTAATATT	300
AAGCAACTTT	TCTCAGCAGA	AGAAATGCCC	AAATCTTAA	GGACAGTACT	CGAG	354

(2) INFORMATION FOR SEQ ID NO:1465:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 229 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

GAATTCGGCC	AAAGAGGCCT	ACACTGCTCC	AGCTCTGACT	CCCTCATCCC	TTGCCTGGAC	60
CATGGTAATT	GACCCTAGCT	GGTCTCCTTT	TCTCCTCTCA	TCAGTCCTCC	ACATTGCTGC	120
TGTTTTCATC	TTTGTGACAT	ACAAATGTGT	TGCTTTCCCG	TCTAAAACCC	TGCTTGTCCC	180
TCCCCATTTT	GACTGCCTGC	CCCCAGCACG	CACACACACA	ACACTCGAG		229

(2) INFORMATION FOR SEQ ID NO:1466:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 327 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GAATTCGGCC	AAAGAGGCCT	ATTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTAATTTAT	60
AAGGAATAGA	AATTTATTGG	CTCACAGTTC	TGGGGGCTGG	GAAGTCCCAG	AGTAAGGTGC	120
CAGCGTCTGG	TGCAATCCTT	CTTGTGTGTG	CACGTGGGAA	GGTGAAGGG	CAAGAGAGGG	180
CCAAGCTCAT	CTTATTATAC	CAGCACCCAT	TCCAACATCA	TCCTCGAAGG	ATCCCAATTT	240
TGAAAGAAAA	AGCATGTGAG	ACACAGAACA	GGCGAGAGAG	TGAGGGCCCG	GCATGCCCCC	300
AAGTCCCCAC	CACCGCACCT	GCTCGAG				327

(2) INFORMATION FOR SEQ ID NO:1467:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 403 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GAATTCGGCC	TTCATGGCCT	AGAGAGAGAG	AGAGAAAAGG	AGGGGGTGGT	GGAGAAGCGG	60
GAGCGAAGGA	AAGGAGGCAA	AAGGCAAAGT	GAAGGAAAGC	TGGATAGCTC	GGCCTCTCCA	120
AACTGATTGA	TTAGTCATGA	TCCCCGCAGT	TTTAACAGGG	ACTCATTCAA	TTGGGAAGGT	180
GGAGCGCTGG	GGAGCAGATT	AGCATACGCT	TGTTTACTCA	TCTTCTGAGG	GATTTTTTCC	240
CCCTCTTTCC	TTTCATTTTG	AGAAGAAGGA	GGGAGGGGAG	GGGGGACTTG	GGGGGGGAGA	300
AGGGGGCTGT	GGCTTGTGTT	ATAAAGGACG	CAAAAAATAA	ATAAATTAGA	GCATCTTTTG	360
GGGGGAGGGA	ATTCAGCGGA	TCAGTCTTAA	GATGGAGCTC	GAG		403

(2) INFORMATION FOR SEQ ID NO:1468:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC	TTCATGGCCT	ACACGAGGTC	AGACGTCACA	CATTGTTTTT	TGGCTTGTTT	60
TTTTGAAGTT	TTTACGACTT	GTCATGAGTC	TCGGCCTGGC	TTCTGTTTTT	CACGTGCCGG	120
AAGAGTGTGG	TCCTTCTGCA	TTTGACCTTC	CTTCACCCCT	ATCCAGTCCT	CCCAGTGTGG	180
CCGGTCTCAT	TTCTGTTCGT	CAGCTGGGTC	AGCTGGCTCG	GTGTGGAGTT	TGGATTTTCC	240
GTGATCCATC	CCATGCTTTT	TTTTTCTTTC	TTTCTTTTTT	CCTTTTCTTT	TCTTTTCTTT	300
TTTTTTTCAGT	TTTCTCCCCA	ACTCTCGAG				329

(2) INFORMATION FOR SEQ ID NO:1469:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 352 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

```

GAATTCGGCC TTCATGGCCT ACAGGAAAAT TCTTCTGGCG TATTTTCATTG TGATGTTTAT    60
AGTATATGCC TTGAAGTGG CATCTTGAT CACAGCAGCA ACACAACGAG ACTTTATGCT    120
AGAGAGGTAC CAAAACAACA GCCCTCCAAA CGATGATGAC CAGTGGAAAA ACAATGGAGT    180
CACCAAAACC TGGGACAGGC TCATGCTCCA GGACAATTGC TGTGGCGTAA ATGGTCCATC    240
AGACTGGCAA AAATACACAT CTGCCTTCCG GACTGAGAAT AATGATGCTG ACTATCCCTG    300
GCCTCGTCAA TGCTGTGTTA TGAACAATCT TAAAGAATCT CTCACCCTCG AG          352

```

(2) INFORMATION FOR SEQ ID NO:1470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 609 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

```

GAATTCGGCC TTCATGGCCT AGAGCCGTCC TATCAGATTA TCTTAACAAG AAAACCAACT    60
GGAAAAAATA ATGAAATTCC TTATCTTCGC ATTTTTCGGT GGTGTTTACC TTTTATCCCT    120
GTGCTCTGGG AAAGCTATAT GCAAGAATGG CATCTCTAAG AGGACTTTTG AAGAAATAAA    180
AGAAGAAATA GCCAGCTGTG GAGATGTTGC TAAAGCAATC ATCAACCTAG CTGTTTATGG    240
TAAAGCCCAG AACAGATCCT ATGAGCGATT GGCACCTCTG GTTGATACTG TTGGACCCAG    300
ACTGAGTGGC TCCAAGAAGT AGAAAAAGCC ATCCAAATTA TGTACCAAAA CCTGCAGCAA    360
GATGGGCTGG AGAAAGTTCA CCTGGAGCCA GTGAGAATAC CCCACTGGGA GAGGGGAGAA    420
GAATCAGCTG TGATGCTGGA GCCAAGAATT CATAAGATAG CCATCCTGGG TCTTGGCAGC    480
AGCATTGGGA CTCCTCCAGA AGGCATTACA GCAGAAGTTC TGGTGGTGAC CTCTTTCGAT    540
GAACTGCAGA GAAGGGCCTC AGAAGCAAGA GGAAGATTG TTGTTTATAA CCAACCTTAC    600
AACCTCGAG                                     609

```

(2) INFORMATION FOR SEQ ID NO:1471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

```

GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGAGCCTGG GCAATAGAAT    60
GAGGCTCCAT CTCATAATAA TAATAAGCAG CAGCGGCAGC TCTGGTAGAT TTTTGTGT    120
GCTTGCTCTC ATGAAGACTT AAGCCTGCTC TTTCAATTG AAACCTAGGC ACTTGGACTA    180
ACTTAAAGA TCATGTAAAA AATTTAATT TTGTTTGGTA TAGATTAAAT TGTGGTTTTT    240
TTTTTCTCTT TTAGATATAA TTGATCCTGT TGCTTTAGAA ATTCCATTAT CCAAAAACCT    300
TCTGGCACAG ATTAGTGCTC TTGCTCTTCA GCTGGATTCA GAAGATCTC ATAATTATTC    360
AGGAAGCCAA CTATTTGAAA TGCACGAGAA AACCTCGAG                                     399

```

(2) INFORMATION FOR SEQ ID NO:1472:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

```

GAATTCGGCC TTCATGGCCT ACAGGTTTTA AACTGGTTTT TTGCATACTG CTATATAATT      60
CTCTGTCTCT CTCTGTTTAT CTCTCCCTC CCTCCCTCC CCTTCTTCTC CATCTCCATT      120
CTTTTGAATT TCCTCATCCC TCCATCTCAA TCCCGTATCT ACGCACCCCC CCCCCAGGC      180
AAAGCAGTGC TCTGAGTATC ACATCACACA AAAGGAACAA AAGCGAAACA CACAAACCAG      240
CCTCAACTTA CACTTGGTTA CTCAAAGAA CAAGAGTCAA TGGTACTTGT CCTAGCGTTT      300
CTCGAG                                     306

```

## (2) INFORMATION FOR SEQ ID NO:1473:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

```

GAATTCGGCC TCATGGCCTA CAACTCCGCA GCAAACAACT CCGCAAACGG AAAAAGAACG      60
ACATGATGCA ATCTTCAGGA AAGTAAGAGG CATACTAAAT AAGCTTACTC CTGAAAAGTT      120
TGACAAGCTA TGCCTTGAGC TCCTCAATGT GGGTGTAGAG TCTAAACTCA TCCTTAAAGG      180
GGTCATACTG CTGATTGTGG ACAAAGCCCT AGAAGAGCCA AAGTATAGCT CACTGTATGC      240
TCAGCTATGT CTGCGATTGG CAGAAGATGC ACCAACTTTT GATGGCCAG CAGCAGAGGG      300
TCAACCAGGA CAGAAGCAAA GCACCACATT CAGACGCTC CTAATTTCCA AATTACAAGA      360
TGAATTTGAA AACCGAACGC TCGAG                                     385

```

## (2) INFORMATION FOR SEQ ID NO:1474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

```

GAATTCGGCC TTCATGGCCT AGATCCCCTT ATTTGCCAA AAAGTGTCAT CAATTCATT      60
GGATAACTTT TATGTTTTAG GAACGTGGCC TCTCTTTTAA TTAGTGAGAA CTTACAAAAT      120
GGTTCAGAAA GTTATATTTT TTAAAGCTTT CATTCATTGA TATATTGAAC ATCTAAGGCT      180
TAACTATCTT TCCACTGGGA CAAAAACAGA ATTCTTAAAA ATGAGGAGGA GGGCCCAGTG      240
TGGTGGCTTA CACCTGGAAT TCCAGTGCTT TGGGAGTCCA AGGTAGGAGA ACTGCTTGAG      300
GCCAGGGGTT TGAGACCAGC CTGGGCAACA CAGCAAGACA ACTCTACAAA AAATTAAAAA      360
AACATCCAG GGCCGAGCAT AGTGGTTCAC ACCTGTAATC CCAGCACTTT AGGAGGCCAA      420
GCCTCGAG                                     428

```

## (2) INFORMATION FOR SEQ ID NO:1475:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 338 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

```
GAATTCGGCC TTCATGGCCT ACTGGGATGT ATATGAGAGA CAGTGCTTTC AATTAAATCC      60
TTGGGTATAT TTTTATTAAT TTCTCCAGA TTTTCTTTT AAGGCCTTTT CTAAGTTATA      120
CTGCATATCA AACTTCCCTG TTATTGAAGG ATATAAGGTA GAAGGTAAAA GCCATTTTCC      180
TATAAGTAAC TTGGGCATTT GCAAAGATTT TTCTCAAGTG CAGTTGTAAC TATACTAAAA      240
TATACTAATA TTGTGTTATG ATATACCTTG CTTTTTTTCT TTTATTTTTT CTTTGTAGAC      300
AGAGTTTTC TCTTGTTC CAGGCTGAAG CGCTCGAG      338
```

(2) INFORMATION FOR SEQ ID NO:1476:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 346 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

```
GAATTCGGCC TTCATGGCCT ACAAAGAGCT AGAAGCCATT GAAAGTCGGC TAGAAAAGAC      60
AGAATTCACT CTAAAAGAGG ATTTAATACT ACTGAAAACA TTAAGTGTGA TGTTGTAGA      120
TGAACGGAAA ACAATGAGTG AAAAATTAAA GAAAGTCTGAA GATAAATTAC AAGCTGCTTC      180
TTCTCAGCTT CAAGTGGAGC AAAATAAAGT AACACAGTT ACTGAGAAGT TAATTGAGGA      240
AACTAAAAGG GCGCTCAAGT CCAAACCGA TGTAAGAAGAA AAGATGTACA GCGTAACCAA      300
GGAGAGAGAT GATTTAAAAA ACAAATTGAA AGCGGCAGAA CTCGAG      346
```

(2) INFORMATION FOR SEQ ID NO:1477:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 298 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

```
GAATTCGGCC TTCATGGCCT ACAGGTTTTT ATTTTATATT ATTTTCCTTT AGCCTGAAAA      60
ATTTATTTAT TTTTCTCTT AGTACAAGTC TGCTGGTGGT AAATCTCTT AGTTTTGTGTT      120
TATTGAAAGA TATTTTATT TTGCCTTCAT TCCAGAAGGT TGCTTTTGCT GGATATAGGA      180
TTCTACAACT TTTGCCTTTA ACATGTTATG GATGCCATTC CTCTGTCTTT TAGCTTCCAT      240
TGTTTCTGAT GCTAAATCTT CAGTCATTTT ATCATTGATC CTCTGTAATG TACTCGAG      298
```

(2) INFORMATION FOR SEQ ID NO:1478:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 107 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

```
GCGAACTAGC CCAAATGCAC CTAGGAACAT TGTGCTTCA GGACCAGTTA TTTCTGACCT      60
TCCAGTTGTT CCTGACTGTG AAGGGTGACC GCTTCCCGGG ACTCGAG                      107
```

(2) INFORMATION FOR SEQ ID NO:1479:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 340 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

```
GAATTCGGCC TTCATGGCCT ACTTATATTC TTTATTATTA TTTAGTACAA AAATAGATTC      60
CCAGTAGATA TCCACAAGCA ATATTAGCAG GGCTTCTGTT TCTAAGTGAC CACAGACTAA      120
CCCTTTCTAG GCTTTAACAT TGTAATAAT CCTATAAACA GTTTGATTTT TTAAGATGAT      180
TTTTGATTTG AAGAGACAGG CTTTACATAA GCCTTCATTC CTTCAAAAGG TCCTGACAAA      240
ATACTGGGT TTTTTCTCT TTTTTCATT CTGGTATGCT TTGCAGCATT TCAGCTGCTT      300
TGGTGGGGAC ACAGATAACC CCTTCGCTTC CAGACTCGAG                      340
```

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 233 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

```
GCGATTATTG TAAGTTGACA ATTTATAATT GTATAAAAGT ATGAGGTACA AAGTGATGTT      60
ATAGCTTAAG AATACAGTAT GGTATGATTA AATCAAGTTA TTAACCTATC CTTACAGTTA      120
AATGCTTAAA TTTTGTGATG AGAACATTG AAATTTACTC TTGGAAGGTA AAAAAAATC      180
TCAGGACCCC CCAAATTAAG GCCATGAAGC TGAATTGTGC AACAATCCTC GAG                233
```

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 266 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

```

GAATTCGGCC TTCATGGCCT AGATAACTAT TGCTCCAGT ACCCTTTCAG CTATCTCACA      60
TAACTTTGAT ATATAATTATT TTTATTATCG TTTATTAAAGT GTCTAATTC CATTGTGAAG      120
TCTCCTTGGA CCTATAAGGC TGAAATAAAA TAATTTAAAA TTTATTTCT TATTGTTTCT      180
AATTCAATTT CATTATAGTT AATGCAAGTG GTCATTGTGC TATTGAGTTT GGTACTTTGG      240
AGGTTTCTTT TTCTGGCTAT CTCGAG                                           266

```

## (2) INFORMATION FOR SEQ ID NO:1482:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

```

GAATTCGGCC TTCATGGCCT AAGAAATGTT CACTTTTCCA ACTTAAAAGG ATTTTAAAA      60
ATACAAACAT AATTGACCTA CTTGTTCAA AGAACAGAAG TGAGGAGAAC TTGCTTAAAG      120
GTATTGATGT TATATTTTCT CTTGACTGAG TGCTTGAAAA AAAATTTTAT TGAACATATG      180
TTCTCCTTCC GTGGCTTTT TGTCTTGTCT TTTTGTGTTT GTTTGTGTTT TTTTCTTT      240
GAGATGGAGT CTCACTCTCT GCTCGAG                                           267

```

## (2) INFORMATION FOR SEQ ID NO:1483:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 242 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

```

GAATTCGGCC TTCATGGCCT AAATTAGCAT CTAGTGTCAC AGGTAAAAGA ATTTCAGGAC      60
CAGGTTTAAA CTTTATTTTA AATATTTTTA TACTTAGGTC TCTTTTCCT GCCTCTCCCC      120
AAAGAAGAGC CACTGGCCTT AGTTGTTTGA GCTTACTGCT TATATTATAG AGTGTAATA      180
GGTAACTAGA GACTAAAATT TTATTAACCA GCATGTTTGG TATATTTAAA GCAGTTCTCG      240
AG                                           242

```

## (2) INFORMATION FOR SEQ ID NO:1484:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 291 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

```

GAATTCGGCC TTCATGGCCT ACAGAGTGTG GTTCTGTAG CAACACTTCT CATGACCATC      60
TGTTTTGTGT TTATGATGAT TTTTTCAGGT CTGTTGGTCA ATCTCACAAC CATTGCATCT      120
TGGCTGTGAT GGCTTCAGTA CTTACGATT CCACGATATG GATTTACGGC TTTGCAGCAT      180
AATGAATTTT TGGGACAAAA CTTCTGCCCA GGACTCAATG CAACAGGAAA CAATCCTTGT      240
AACTATGCAA CATGTACTGG CGAAGAATAT TTGGTAAAGC AAGGGCTCGA G              291

```

## (2) INFORMATION FOR SEQ ID NO:1485:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 264 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

```
GAATTCGGCC TTCATGGCCT AGTAATTTT GATAGTAAGG GCTTTTATT GTCATTTTTT    60
GTTAATCGTT TCCTGTCTGT TTTGTATTTC TTTGTTCTCT CTCTTCCTCG CTTGGTATCA    120
TCTTTGCAAT TTGATAATTT TTGTTGTGAT ATACTTTGAT TCTTTCTATT TATCTCTTCT    180
GAATCTAATA TTAGTTTTTT TTATCTTTTC TGTATCTATT ATTAGTTTTT TTTCTTTGTG    240
GTTATCATGA GGCTTCCACT CGAG                                           264
```

## (2) INFORMATION FOR SEQ ID NO:1486:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 292 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

```
GAATTCGGCC TTCATGGCCT ACCAGTGCCT TCCTCTTCCC TATATTCTGT GTGTCTTAAC    60
GGAATTATTT TTCCAAATCA TTGTGTGCAA AGAACTAAT GACATCATAA GTATGATTTT    120
TGTACACATT TTAGTTGTAA TTGCTAGGTT TTCCAAGATT TCACAGTCAT CAAGTCATCT    180
GTTCCAGAC ATCCCAACAA GTACTTATCA AGTGTCTCCA TCTGCTGCCT TCATCTCTCT    240
CAGGTGCCAT TCCAGTGACA TTGCTATAGC CTCTTGCTGT ACCCCCCTCG AG           292
```

## (2) INFORMATION FOR SEQ ID NO:1487:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 261 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

```
GAATTCGGCC TTCATGGCCT AATGGATATA GAATCCAGG TTGATAAACA TTTTCTGTCA    60
CAACTTTTACA ACTGAAGGCA TTGCCCTTTT GTCTTTTACC GTTCATTTGA TAAAAAGTCT    120
GGTGGTAATC TAATTCTTAC ACCTTGTAG GTGAGCATTT TTTCCTTTCC TGTGACACAT    180
TTGTGATTAT CTGATCCTTA GAGATCTGAA GTTTTATCAT TTGTATCTAT GAGATCTTTT    240
CCCATCCTCC TGGTGCTCGA G                                           261
```

## (2) INFORMATION FOR SEQ ID NO:1488:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 488 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

```
GAATTCGGCC TTCATGGCCT AATTTTCTGT ATATTTTAC ATGAATTCA GACTATATT      60
GAACAGCTAT GTTAAAGGAT AATCAAAAGA TGAAGTGAC AGGGAGAATT TGGAAATATT      120
AGCCCAAGTC TAGTCAATTG TGATTGTTGT TGGTTGGTA CTAGTTTAAA TTGGGGCTAA      180
ATTAGAGCC ACTGGGACTG AGTACCTCGG TTGATCTCCA ATGATTCCAA TTGCTAAAAA      240
GTAAAGGGCA ACCACACATA CGTACCAATT CTGAAGTCCT AGGAAATTTT TAAAAGAATG      300
TAAGAGAATA AGAAAATGTA AAAGGGAGAA GAGTTTATAT GTCATGACGT AAGTTTGA      360
GTTATTTACT TTGTAAGTGG ACCTTCTCTG CTTCTTCCAA TGTGTTTCATT AAGACCCTGC      420
TGAAAAATGA CCTTCCAACCT CCCCTGAGTA ATTATTTAAG ACCCTTTCAT CTTACCAACC      480
CTCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 238 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

```
GAATTCGGCC TTCATGGCCT AGTCTCAAAA AAAAAATCAA AATAAAAGTA AAAGTAAGAA      60
GATGGAAATT TGCTTAGCTG TGAAAGGAAA GCGGATCTGT CTGATGTCCT GTGTTTGGTG      120
CCTAGGTGGG CTGGTGCTT GCATTTCCTG CGTTGCAGTG TCAGGATTTT TCAGGGATCA      180
GCCTTGGCAC TGGAGACCTT CACATTTTCC ATCTGGTTAC TATGGCACAC AACTCGAG      238
```

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 263 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

```
GAATTACTCT GGAAGATATG CTCTATGCTG CTTTCATCCAT AAAGAGTAAT TATTTGGTGT      60
TCATGGCGGA ACTGTTCTGG TGGTTTGAAG TGGTGAAGCC GTCTTTTGTA CAGCCTCGTG      120
TTGTTTCGTC ACAAGGAGCT GAACCTGTAA AAGATATGCC TTCAATTCCT GTCTTGAATG      180
CTGCCAAAAG AAATGTCTTA GATAGTAGTT CTGACTTCCC TTCAAGTGGG GAAGGAGCTA      240
CATTTACACA GTCTCATCTC GAG
```

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 257 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCTC	ACACCTGGAT	TATCTCAGTA	GTTTCCCAAC	60
TGGTTTCCTT	GTTTCCAATC	TTGCCTCCTT	CTGTCTACTC	TCAATATAAC	AGCTAGAACA	120
ATCCTTTTAC	AATGGAATC	AGATCATGTT	TACCCCTCTG	TTCAAATTCT	CCAGTGACTT	180
TCCAGTTTTT	ACATGATCTG	GCTCCTACTA	CCTGCTCAC	TGTGTTTCCT	ACTACTCTCC	240
TGCCCTTTCT	CCTCGAG					257

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

GAATTAAAGA	GGGCGATATC	ATCACACTCA	CTAACCAAAT	TGATGAGAAC	TGGTATGAGG	60
GGATGCTGCA	TGGCCATTCA	GGCTTCTTCC	CCATCAATTA	TGTGGAAATT	CTGGTTGCCC	120
TGCCCCATTA	GGATGTTATG	CTGGCTGGCT	CGCCTCCTCT	TGACCCAGAT	AGTTACGGTT	180
AACCACTGCT	TTGGCAATGC	TGCTTATAAC	ACATCCCAAG	TGCAGGCCGC	AGTGGTCCAC	240
GTCACTCCAGC	CCCACCAAGT	GACTTTGGTT	GACTTGTTGG	CTCCACACAG	ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

GAATTCGGCC	TTCATGGCCT	AAAAAGAAAG	AAAAAGAAAA	GAAAAAACCT	TGGAGAAGTA	60
AGGGATTCTG	TAAAAAATTT	CCCCAATTTT	ACTAGAGAGA	TTGACATATA	AATTTAGAAA	120
ATTCAGATAA	CCTATGTAAG	ATGCTATGTA	AGACAACCAT	TGCAGAGACA	CAAAGTAATC	180
AGATTCTTGA	AGGTCAATGC	AAAAGAAAAA	AATATTAAAG	GCACTCGAG		229

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

GAATTCGGCC	TTCATCTGAC	AATTAAAAAC	ACTACCTTAG	TTTGTTTTTC	TGTAATTGAA	60
------------	------------	------------	------------	------------	------------	----

TTTGACAGT TCTATTTTAC TTGAATTAGT CTTTTTATAT ATATATAGGC AGAAGTACTT	120
AAATAAATCT TCCCTTAAGT ATCAAAAGCA AAAGAATAAC ATTCATAGAA GTCTAACATG	180
TTCAAACGT TAAATATACT ACAATTGTTT ATTACATTA TAAATGCAGC TAAAATGACT	240
AACCTTTCAG ATCAACCCCT CGAG	264

## (2) INFORMATION FOR SEQ ID NO:1495:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 190 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

GAATTCGGCC TTCATGGCCT ACCTTCCTTC CTTCCTTCCT TCCTTTCCTT CCTTTCTTCC	60
TTCTTCCTT TCCTTCCTTT CTTCCTTTC CTCTCTTCT CTCTTCTGT CATGGTCTGG	120
CTCTGTTACC CAGGCTGGAG TGCAGGGGTG CAATCTCAGC TCGTGCAAC TTCTTCCCCC	180
CCAACCTCGAG	190

## (2) INFORMATION FOR SEQ ID NO:1496:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 232 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

GGCCTTCATG GCCTACTAAG CTATTTGATT CTAAGTGAAT ATGTTATCTC TTATTAGAGG	60
ATATGTTAAT TTTCTGTCAT TTTATTCATT TATTAACTTA ACATCTCTGA TTGCCTACCA	120
TGTGTCAGGC TCTGTACTAA GGATTGAGGA CCCAAAGATG AACAAAACAT GGGGCCTAAT	180
TCAAAGATTT CACAACTGG AGAGAAAGTC AGCCACATAC AAAAGCCTCG AG	232

## (2) INFORMATION FOR SEQ ID NO:1497:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 152 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

GTAGAATTGT ACAGTGCTTA TGAGTTATGC ATGTGTTCTT GGTCTTTGTT CTAGGATTTT	60
TTTTTTTTTT TGATGCTGC TCCAGTTGCC TTAATTACTT TGACATTGGA GTTGACCACA	120
TGATGGTGGT CCACACTTCC CCTAGGCTCG AG	152

## (2) INFORMATION FOR SEQ ID NO:1498:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 254 base pairs



(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

```
GCGATTGAAT TCTAGACCTG CCTCGATCTC TTGTATTAG TATTTTGTGG GGGAGGTACT      60
TTGAAACTGT GTAAATATAC CATTCTCAT TAACTTTTC AATTTATTCC CTTATTAGA      120
TGCGTATGAA CTCATGGCTT CTTGTTTAT TTGATGGATC CAAATCTGTT AATATCCTTA      180
CTGATTTGGA TGCTCAGACT GCCCCAGATT TGGCCAGTGG AAGCCCTTTC AGGCTTGCTC      240
CCATGTCCTT CGAG                                         254
```

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 658 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

```
GAATTCGGCC TTTCATGGCC TAGAGAGCGC GGTGGGCTGC CATTTAAACG CGGCCATCGG      60
TCCGGCCATC ATCCCTTCA CCGTACTAGA CTCGGGATG GTGAGATCCT TCTCATCCTT      120
TGGGGGCCGA CCCCCTTCC GGGGACTTTG CTCCTGGGCT CTTTTCAGAG GGGATTGGA      180
GCCTCTCTCT GAAGAGCCTG AAGACACCCT CTCTTTCTCT TCTCCCATGT TCTTCTCAC      240
CTTCCCTTCA GACAGGCTAA GTTTGCGCTT CTCATCACCT GAGTTTGGCC TACTTCTCTC      300
CTCACTGGAA TTACGTCGAT TCTTGTCATC AGAAGAATTG TGGGATGACG TCTGGTCTTT      360
CCCTTTGGCT CTCCTGTAGG CCATGAAGGC CCGGCCTTCA TGGCCTACCA TTTCTTACAC      420
ACACTGCCAG AGATACTCTA GGCATGTAAA GCACAAACAT ACATATAAAA TCTGCGGGCT      480
TCAAAAAATA TAAGTAGGAT GTCATCTATA CTGTCATACA CTTTGTITTT TATCACTTAC      540
TTAATGTTAT ATCTTGGATA TTGTATTACC CTGGGTATTA AAAAGAACTC CTTTCACATT      600
TTAAATAAC AATCTGAGCA CTTCATAAAT CCAATGCGT ATCTCCAGTC TGCTCGAG      658
```

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 113 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

```
GAATTCTAGA CCTGTCTCGA GAAACCAGAG GACTTTTCTG CTTTGTITTT TCTTTTAGGA      60
GGTAATAAAA CCGTGAATTT ATTTAAATGC TAATGTGTAG GATCTCACTC GAG      113
```

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

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599

NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;

or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID

NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID

NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID NO:330, SEQ ID NO:331, SEQ ID NO:332, SEQ ID NO:333, SEQ ID NO:334, SEQ ID NO:335, SEQ ID NO:336, SEQ ID NO:337, SEQ ID NO:338, SEQ ID NO:339, SEQ ID NO:340, SEQ ID NO:341, SEQ ID NO:342, SEQ ID NO:343, SEQ ID NO:344, SEQ ID NO:345, SEQ ID NO:346, SEQ ID NO:347, SEQ ID NO:348, SEQ ID NO:349, SEQ ID NO:350, SEQ ID NO:351, SEQ ID NO:352, SEQ ID NO:353, SEQ ID NO:354, SEQ ID NO:355, SEQ ID NO:356, SEQ ID NO:357, SEQ ID NO:358, SEQ ID NO:359, SEQ ID NO:360, SEQ ID NO:361, SEQ ID NO:362, SEQ ID NO:363, SEQ ID NO:364, SEQ ID NO:365, SEQ ID NO:366, SEQ ID NO:367, SEQ ID NO:368, SEQ ID NO:369, SEQ ID NO:370, SEQ ID NO:371, SEQ ID NO:372, SEQ ID NO:373, SEQ ID NO:374, SEQ ID NO:375, SEQ ID NO:376, SEQ ID NO:377, SEQ ID NO:378, SEQ ID NO:379, SEQ ID NO:380, SEQ ID NO:381, SEQ ID NO:382, SEQ ID NO:383, SEQ ID NO:384, SEQ ID NO:385, SEQ ID NO:386, SEQ ID NO:387, SEQ ID NO:388, SEQ ID NO:389, SEQ ID NO:390, SEQ ID NO:391, SEQ ID NO:392, SEQ ID NO:393, SEQ ID NO:394, SEQ ID NO:395, SEQ ID NO:396, SEQ ID NO:397, SEQ ID NO:398, SEQ ID NO:399, SEQ ID NO:400, SEQ ID NO:401, SEQ ID NO:402, SEQ ID NO:403, SEQ ID NO:404, SEQ ID NO:405, SEQ ID NO:406, SEQ ID NO:407, SEQ ID NO:408, SEQ ID NO:409, SEQ ID NO:410, SEQ ID

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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[illegible]

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ



ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID

NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID NO:258, SEQ ID NO:259, SEQ ID NO:260, SEQ ID NO:261, SEQ ID NO:262, SEQ ID NO:263, SEQ ID NO:264, SEQ ID NO:265, SEQ ID NO:266, SEQ ID NO:267, SEQ ID NO:268, SEQ ID NO:269, SEQ ID NO:270, SEQ ID NO:271, SEQ ID NO:272, SEQ ID NO:273, SEQ ID NO:274, SEQ ID NO:275, SEQ ID NO:276, SEQ ID NO:277, SEQ ID NO:278, SEQ ID NO:279, SEQ ID NO:280, SEQ ID NO:281, SEQ ID NO:282, SEQ ID NO:283, SEQ ID NO:284, SEQ ID NO:285, SEQ ID NO:286, SEQ ID NO:287, SEQ ID NO:288, SEQ ID NO:289, SEQ ID NO:290, SEQ ID NO:291, SEQ ID NO:292, SEQ ID NO:293, SEQ ID NO:294, SEQ ID NO:295, SEQ ID NO:296, SEQ ID NO:297, SEQ ID NO:298, SEQ ID NO:299, SEQ ID NO:300, SEQ ID NO:301, SEQ ID NO:302, SEQ ID NO:303, SEQ ID NO:304, SEQ ID NO:305, SEQ ID NO:306, SEQ ID NO:307, SEQ ID NO:308, SEQ ID NO:309, SEQ ID NO:310, SEQ ID NO:311, SEQ ID NO:312, SEQ ID NO:313, SEQ ID NO:314, SEQ ID NO:315, SEQ ID NO:316, SEQ ID NO:317, SEQ ID NO:318, SEQ ID NO:319, SEQ ID NO:320, SEQ ID NO:321, SEQ ID NO:322, SEQ ID NO:323, SEQ ID NO:324, SEQ ID NO:325, SEQ ID NO:326, SEQ ID NO:327, SEQ ID NO:328, SEQ ID NO:329, SEQ ID

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.

